songhyun TMC

O-Route®

Halogen free & Mud resistant Offshore cable

NEK-606 | IEC 60092-350, 353, 354, 376

ENTERPRISE WITH DREAM, HOPE, AND FUTURE

TMC Co., Ltd has been pursuing innovation in technology and products for the specialty industrial cable market.

For 27 years TMC has had a single-minded focus on delivering superior customer services with marine and offshore plant cable solutions.

The operational excellence of TMC is underpinned by its products with the best quality and outstanding service to meet specific requirements that makes us the world's most experienced marine and offshore cable manufacturer.

Company History

1991 Establishment of Seojin Industry Co.,Ltd.
1998 ISO 9001 Certification by LRQA
2004 ISO 14001 Certification by LRQA
2005 Changed the name of company to TMC Co.,Ltd.
2006 Won the 30 million USD Export Tower Award granted by the Ministry of Knowledge Economy
2006 Earned recognition by Hyundai Mipo Dockyard Co., Ltd. as one of the excellent suppliers.
2007 Won the 70 million USD Export Tower Award granted by the Ministry of Knowledge Economy
2007 Received the High quality supplier Certification from DSME
2007 Achieved Korean world-class product award 2007
2008 Won the 100 million USD Export Tower Award granted by the Ministry of Knowledge Economy
2008 OHSAS 18001 Certification by LRQA
2009 Awarded the Q-Mark as a Silver grade for Offshore Cable supplier by Samsung Heavy Industries
2010 Awarded the Best Supplier for Offshore & Marine Cable by Ocean Rig
2010 Earned recognition by DSME as one of the excellent supplier
2011 Awarded the Best Supplier for Offshore & Marine Cable by Stena Sphere
2011 KEPIC Certification by KEA (Manufacture of Class 1E cable)
2012 Won the 200 million USD Export Tower Award granted by the Ministry of Knowledge Economy
2013 Designated as 'Korean Hidden Champion' by Korea Eximbank
2013 TL9000 certification by SGS (design & manufacture of optical fiber cable)
2014 Earned recognition by DSME Excellent supplier

Certificates

- Type Approval Certification for shipboard cables : ABS, BV, DNV, GL, KR, LR, NK and RINA
- Type Approval Certification for NEK 606(2004) offshore cables : ABS, DNV and LR
- Type Approval Certification by ABS for offshore cables and listed on ETL
- Type Approval Certification for Passenger ships cables : ABS, DNV,LR, BV and CCS
- Obtained Patent of Paint Resistant Shipboard Cables (Patent N0. 10-0627241)
- Type Approval Certification for IEEE1580 Type P cables : ABS, DNV, CSA and listed on ETL
- Type Approval Certification for LNG Carrier cables : ABS, DNV, LR and BV
- Gost-R Certification for NEK 606(2004) offshore cables by GOSSTANDART
- Type Approval Certification for Marine Optical Fiber Cables : ABS and DNV
- Type Approval Certification for MIL 24643 Warship Cables : KR
- Type Approval Certification for VG 95218 Submarine Cables : KR


TME

Code Designation

Materials	Insulation	Bedding / inner covering inner sheath	Armor / screen	Outer sheath
Fire resistance tape+insulation (Halogen-free)	B			
Halogen-free ethylene propylene rubber - EPR	R			
Cross-linked polyethylene XLPE	T			
Thermoplastic compound (Halogen-free)	I			
Halogen-free thermoset compound or EVA	U			
Bedding/Inner covering or taping (Halogen-free)		F		
Screen (poss. with PE or PP)		Y		
No armour			X	
Copper wire braid (Tinned or bare)			O	
Bronze wire braid			B	
Galvanized steel wire braid			C	
Thermoplastic compound (Halogen-free) SHF1		I		I
Halogen-free thermoset compound, SHF2				U
Halogen-free mud resistant thermoset compound, SHF Mud				U

Added abbreviation

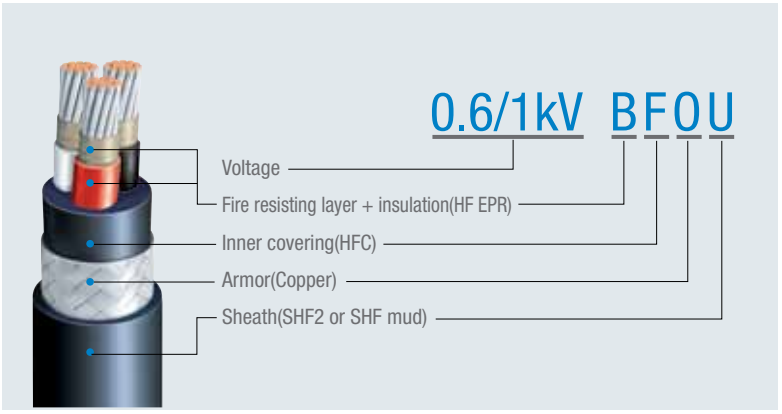
(i)	Individual screen
(c)	Collective screen
(i&c)	Individual & Collevtive screen

Sheath Code

no marking	Minimum requirements
E	Enhanced Oil resistant - category b
M	Enhanced Oil resistant - category b Mud resistant - category c
H	Enhanced Oil resistant - category b Hydraulic / gear Oil resistant - category d
H-M	Enhanced Oil resistant - category b Mud resistant - category c Hydraulic / gear Oil resistant - category d

Note. For requirements to hydraulic test oil, see clause NEK 606 4.5.3

Example



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NEK 606 Cable type code

Designation	Cable type code		
	Minimum Requirement	HCF	Fire Resistant
8.7/15kV RFOU/TFOU	P104	P115	P122
6/10kV RFOU/TFOU	P103	P114	P121
3.6/6kV RFOU/TFOU	P102	-	P120
0.6/1kV RFOU/TFOU	P101	-	-
0.6/1kV BFOU	P105	P118	-
0.6/1kV UX	P108	-	-
0.6/1kV RU	P111	-	-
0.6/1kV BU	P110	-	-
250V RFOU(i)	S101	-	-
250V RFOU(c)	S102	-	-
250V BFOU(i)	S103	S109	-
250V BFOU(c)	S104	S110	-
250V RU(i)	S105	-	-
250V RU(c)	S106	-	-
250V BU(i)	S107	-	-
250V BU(c)	S108	-	-

HV Power Cable

HV Power Cable

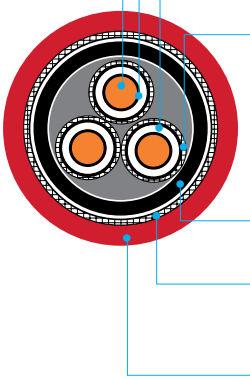
Cable Designation (P102, P103, P104)

3.6/6KV RFOU
6/10KV RFOU
8.7/15KV RFOU

Application Standard

- Design guide	: NEK-606 & IEC 60092-354
- Flame retardant	: IEC 60332-1 & IEC 60332-3 Category A
- Halogen content	: IEC 60754-1, 0.5% ↓
- Cold bend / impact	: CSA 22.2 No.03 (-40℃/-35℃)
- Mud / Oil resistant	: NEK-606 (Category a, b, c, d)
- Smoke light transmittance	: IEC 61034, 60% ↑
- Sunlight (UV) resistant	: UL 1581

Construction

Sectional view	Classification	Code	Construction detail
	Conductor	FX-	- Stranded tinned annealed copper wires as per IEC 60228, Class 2 - Option : Stranded tinned annealed copper wires as per IEC 60228, Class 5 (FX-added)
	Conductor screen		- Semi-conducting layer (tape / compound)
	Insulation	R	- EPR as per IEC 60092-360
	Insulation screen		- Non-metallic part : Semi-conducting layer (tape / compound) - Metallic part : Copper wire braid - A suitable separator tape(s) may be applied over the metallic part
	Cabling		- Three metallic braided conductors shall be cabled - Flame retardant & non-hygroscopic fillers may be used - Suitable tape(s) may be applied on the cabled core - A Filler may be applied to obtain a circular Cable
	Inner covering	F	- Flame retardant halogen free thermoset compound
	Armor	O (B,C)	- Braid of tinned copper wire (O) - Option : Bronze wire braid (B) /galvanized steel wire braid (C) - A suitable separator tape(s) may be applied under/over the armor
	Sheath	U	- SHF2 as per IEC 60092-360 - Option : NEK-606 (Category a, b, c, d) / Mud or oil resistant - Outer sheath color : Red
	Core identification		- 3C : Off-white, Black, Red

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

3.6/6kV RFOU, 3.6/6kV RFBU / Class2 Conductor

No. of Cores	Conductor			Thickness of Insulation	Dia of copper wire for braid	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Conductor Resistance (at 20℃) (Max.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.							Nominal	Toler-ance			
No.	mm²	EA	mm	mm	mm	mm	mm	mm	mm	mm	±mm	Ω/km	V/5min.	kg/km
1	10	7	4.2	2.5	0.3	1.0	15.7	0.3	1.5	21.0	1.1	1.840	12.5	740
	16	7	5.3	2.5	0.3	1.0	16.7	0.3	1.6	22.2	1.2	1.160	12.5	850
	25	7	6.6	2.5	0.3	1.0	18.0	0.3	1.6	23.5	1.2	0.734	12.5	1,000
	35	7	7.9	2.5	0.3	1.0	19.2	0.3	1.7	24.9	1.3	0.529	12.5	1,160
	50	19	9.1	2.5	0.3	1.0	20.5	0.3	1.7	26.2	1.3	0.391	12.5	1,340
	70	19	11.0	2.5	0.3	1.0	22.3	0.3	1.8	28.2	1.4	0.270	12.5	1,630
	95	19	12.9	2.5	0.3	1.0	24.2	0.3	1.9	30.3	1.5	0.195	12.5	1,980
	120	37	14.5	2.5	0.3	1.0	25.8	0.3	1.9	31.9	1.6	0.154	12.5	2,290
	150	37	16.2	2.5	0.3	1.2	27.8	0.3	2.0	34.1	1.7	0.126	12.5	2,680
	185	37	18.0	2.5	0.3	1.2	29.6	0.3	2.1	36.1	1.7	0.100	12.5	3,130
	240	61	20.6	2.6	0.3	1.2	32.5	0.4	2.2	39.7	1.9	0.0762	12.5	3,940
	300	61	23.1	2.8	0.4	1.2	35.7	0.4	2.3	43.1	2.0	0.0607	12.5	4,800
	400	61	26.1	3.0	0.4	1.4	39.9	0.4	2.5	47.7	2.2	0.0475	12.5	6,050
	500	61	29.2	3.2	0.4	1.4	43.0	0.4	2.6	51.0	2.3	0.0369	12.5	7,090
	630	91	33.2	3.2	0.4	1.4	47.2	0.4	2.8	55.6	2.5	0.0286	12.5	8,810

3.6/6KV RFOU, 3.6/6KV RFBU, 3.6/6KV RFCU / Class2 Conductor

3	10	7	4.2	2.5	0.3	1.2	31.9	0.4	2.2	39.1	1.9	1.840	12.5	2,360
	16	7	5.3	2.5	0.3	1.2	34.1	0.4	2.3	41.5	2.0	1.160	12.5	2,740
	25	7	6.6	2.5	0.3	1.2	36.9	0.4	2.4	44.5	2.1	0.734	12.5	3,280
	35	7	7.9	2.5	0.3	1.4	39.9	0.4	2.5	47.7	2.2	0.529	12.5	3,860
	50	19	9.1	2.5	0.3	1.4	42.7	0.4	2.6	50.7	2.3	0.391	12.5	4,500
	70	19	11.0	2.5	0.3	1.4	46.5	0.4	2.8	54.9	2.5	0.270	12.5	5,520
	95	19	12.9	2.5	0.3	1.6	51.0	0.4	2.9	59.6	2.7	0.195	12.5	6,770
	120	37	14.5	2.5	0.3	1.6	54.5	0.4	3.1	63.5	2.8	0.154	12.5	7,910
	150	37	16.2	2.5	0.3	1.6	57.9	0.4	3.2	67.1	3.0	0.126	12.5	9,080
	185	37	18.0	2.5	0.3	1.6	61.8	0.4	3.4	71.4	3.2	0.100	12.5	10,630
	240	61	20.6	2.6	0.3	1.8	68.5	0.4	3.6	78.5	3.4	0.0762	12.5	13,190
3C	25	7	6.6	2.5	0.3	1.2	36.9	0.4	2.4	44.5	2.1	0.734	12.5	3,460
Earth	16	7	5.3	1.0										
3C	35	7	7.9	2.5	0.3	1.4	40.5	0.4	2.5	48.3	2.2	0.529	12.5	4,180
Earth	25	7	6.6	1.2										
3C	50	19	9.1	2.5	0.3	1.4	43.0	0.4	2.6	51.0	2.3	0.391	12.5	4,800
Earth	25	7	6.6	1.2										
3C	70	19	11.0	2.5	0.3	1.4	47.0	0.4	2.8	55.4	2.5	0.270	12.5	5,930
Earth	35	7	7.9	1.2										
3C	95	19	12.9	2.5	0.3	1.6	51.8	0.4	3.0	60.6	2.7	0.195	12.5	7,350
Earth	50	19	9.1	1.4										
3C	120	37	14.5	2.5	0.3	1.6	55.8	0.4	3.1	64.8	2.9	0.154	12.5	8,710
Earth	70	19	11.0	1.4										
3C	150	37	16.2	2.5	0.3	1.6	59.8	0.4	3.3	69.2	3.1	0.126	12.5	10,220
Earth	95	19	12.9	1.6										
3C	185	37	18.0	2.5	0.3	1.8	63.8	0.4	3.5	73.6	3.2	0.100	12.5	11,830
Earth	95	19	12.9	1.6										
3C	240	61	20.6	2.6	0.3	1.8	70.1	0.4	3.7	80.3	3.5	0.0762	12.5	14,540
Earth	120	37	14.5	1.6										

HV Power Cable

3.6/6kV FX-RFOU, 3.6/6kV FX-RFBU / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Dia of copper wire for braid	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.							Nominal	Toler-ance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
1	10	5.1	2.5	0.3	1.0	15.8	0.3	1.5	20.8	1.1	730
	16	6.3	2.5	0.3	1.0	17.2	0.3	1.5	22.2	1.2	840
	25	7.8	2.5	0.3	1.0	18.8	0.3	1.6	24.0	1.3	1,010
	35	9.2	2.5	0.3	1.0	20.0	0.3	1.7	25.4	1.3	1,170
	50	11.0	2.5	0.3	1.0	21.4	0.3	1.7	26.8	1.4	1,360
	70	13.1	2.5	0.3	1.0	23.3	0.3	1.8	28.9	1.5	1,640
	95	15.1	2.5	0.3	1.0	25.0	0.3	1.9	30.8	1.5	1,940
	120	17.0	2.5	0.3	1.0	26.9	0.3	1.9	32.7	1.6	2,270
	150	19.0	2.5	0.3	1.2	28.9	0.3	2.0	34.9	1.7	2,640
	185	21.0	2.5	0.3	1.2	30.4	0.4	2.1	37.0	1.8	3,110
	240	24.0	2.6	0.3	1.2	33.7	0.4	2.2	40.5	1.9	3,900
	300	27.0	2.8	0.4	1.2	37.0	0.4	2.4	44.2	2.1	4,810

3.6/6kV FX-RFOU, 3.6/6kV FX-RFCU, 3.6/6kV FX-RFBU / Class5 Conductor

3	10	5.1	2.5	0.3	1.2	32.1	0.4	2.2	38.9	1.9	2,400
	16	6.3	2.5	0.3	1.2	35.2	0.4	2.3	42.2	2.0	2,850
	25	7.8	2.5	0.3	1.4	39.0	0.4	2.4	46.2	2.1	3,500
	35	9.2	2.5	0.3	1.4	41.6	0.4	2.5	49.0	2.3	4,040
	50	11.0	2.5	0.3	1.4	44.6	0.4	2.7	52.4	2.4	4,760
	70	13.1	2.5	0.3	1.6	49.1	0.4	2.8	57.1	2.6	5,810
	95	15.1	2.5	0.3	1.6	52.8	0.4	3.0	61.2	2.7	6,890
	120	17.0	2.5	0.3	1.6	56.9	0.4	3.2	65.7	2.9	8,130
	150	19.0	2.5	0.3	1.6	60.3	0.4	3.3	69.3	3.1	9,270
	185	21.0	2.5	0.3	1.8	63.9	0.4	3.4	73.1	3.2	10,640
	240	24.0	2.6	0.3	1.8	71.1	0.4	3.7	80.9	3.5	13,470
3C	25	7.8	2.5	0.3	1.4	39.0	0.4	2.4	46.2	2.1	3,600
Earth	16	6.3	1.0								
3C	35	9.2	2.5	0.3	1.4	41.7	0.4	2.5	49.1	2.3	4,220
Earth	25	7.8	1.2								
3C	50	11.0	2.5	0.3	1.4	44.6	0.4	2.7	52.4	2.4	4,930
Earth	25	7.8	1.2								
3C	70	13.1	2.5	0.3	1.6	49.1	0.4	2.8	57.1	2.6	6,050
Earth	35	9.2	1.2								
3C	95	15.1	2.5	0.3	1.6	53.6	0.4	3.0	62.0	2.8	7,320
Earth	50	11.0	1.4								
3C	120	17.0	2.5	0.3	1.6	58.2	0.4	3.2	67.0	3.0	8,780
Earth	70	13.1	1.4								
3C	150	19.0	2.5	0.3	1.6	62.2	0.4	3.4	71.4	3.2	10,210
Earth	95	15.1	1.6								
3C	185	21.0	2.5	0.3	1.8	65.4	0.4	3.5	74.8	3.3	11,530
Earth	95	15.1	1.6								
3C	240	24.0	2.6	0.3	1.8	72.6	0.4	3.8	82.6	3.6	14,560
Earth	120	17.0	1.6								

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

6/10kV RFOU, 6/10kV RFBU / Class2 Conductor

No. of Cores	Conductor			Thickness of Insulation	Dia of copper wire for braid	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Conductor Resistance (at 20℃) (Max.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.							Nominal	Toler-ance			
No.	mm^2	EA	mm	mm	mm	mm	mm	mm	mm	mm	±mm	Ω/km	V/5min.	kg/km
1	16	7	5.3	3.4	0.3	1.0	18.5	0.3	1.6	24.0	1.3	1.160	21.0	960
	25	7	6.6	3.4	0.3	1.0	19.8	0.3	1.7	25.5	1.3	0.734	21.0	1,130
	35	7	7.9	3.4	0.3	1.0	21.0	0.3	1.7	26.7	1.4	0.529	21.0	1,280
	50	19	9.1	3.4	0.3	1.0	22.3	0.3	1.8	28.2	1.4	0.391	21.0	1,480
	70	19	11.0	3.4	0.3	1.0	24.1	0.3	1.8	30.0	1.5	0.270	21.0	1,770
	95	19	12.9	3.4	0.3	1.0	26.0	0.3	1.9	32.1	1.6	0.195	21.0	2,130
	120	37	14.5	3.4	0.3	1.2	28.0	0.3	2.0	34.3	1.7	0.154	21.0	2,500
	150	37	16.2	3.4	0.3	1.2	29.6	0.3	2.1	36.1	1.7	0.126	21.0	2,860
	185	37	18.0	3.4	0.3	1.2	31.4	0.4	2.2	38.6	1.8	0.100	21.0	3,410
	240	61	20.6	3.4	0.4	1.2	34.5	0.4	2.3	41.9	2.0	0.0762	21.0	4,220
	300	61	23.1	3.4	0.4	1.2	36.9	0.4	2.4	44.5	2.1	0.0607	21.0	4,960
	400	61	26.1	3.4	0.4	1.4	40.7	0.4	2.5	48.5	2.2	0.0475	21.0	6,140
	500	61	29.2	3.4	0.4	1.4	43.4	0.4	2.6	51.4	2.4	0.0369	21.0	7,140
	630	91	33.2	3.4	0.4	1.4	47.6	0.4	2.8	56.0	2.5	0.0286	21.0	8,870

6/10KV RFOU, 6/10KV RFBU, 6/10KV RFCU / Class2 Conductor

3	16	7	5.3	3.4	0.3	1.4	38.4	0.4	2.4	46.0	2.1	1.160	21.0	3,230
	25	7	6.6	3.4	0.3	1.4	41.2	0.4	2.6	49.2	2.3	0.734	21.0	3,820
	35	7	7.9	3.4	0.3	1.4	43.7	0.4	2.7	51.9	2.4	0.529	21.0	4,370
	50	19	9.1	3.4	0.3	1.4	46.5	0.4	2.8	54.9	2.5	0.391	21.0	5,040
	70	19	11.0	3.4	0.3	1.6	50.8	0.4	2.9	59.4	2.7	0.270	21.0	6,140
	95	19	12.9	3.4	0.3	1.6	54.9	0.4	3.1	63.9	2.9	0.195	21.0	7,400
	120	37	14.5	3.4	0.3	1.6	58.4	0.4	3.2	67.6	3.0	0.154	21.0	8,540
	150	37	16.2	3.4	0.3	1.6	61.8	0.4	3.4	71.4	3.2	0.126	21.0	9,780
	185	37	18.0	3.4	0.3	1.8	66.1	0.4	3.5	75.9	3.3	0.100	21.0	11,410
	240	61	20.6	3.4	0.4	1.8	72.8	0.4	3.8	83.2	3.6	0.0762	21.0	14,240
3C	25	7	6.6	3.4	0.3	1.4	41.2	0.4	2.6	49.2	2.3	0.734	21.0	4,020
Earth	16	7	5.3	1.0										
3C	35	7	7.9	3.4	0.3	1.4	44.0	0.4	2.7	52.2	2.4	0.529	21.0	4,680
Earth	25	7	6.6	1.2										
3C	50	19	9.1	3.4	0.3	1.4	46.5	0.4	2.8	54.9	2.5	0.391	21.0	5,320
Earth	25	7	6.6	1.2										
3C	70	19	11.0	3.4	0.3	1.6	50.9	0.4	2.9	59.5	2.7	0.270	21.0	6,520
Earth	35	7	7.9	1.2										
3C	95	19	12.9	3.4	0.3	1.6	55.4	0.4	3.1	64.4	2.9	0.195	21.0	7,940
Earth	50	19	9.1	1.4										
3C	120	37	14.5	3.4	0.3	1.6	59.2	0.4	3.3	68.6	3.0	0.154	21.0	9,340
Earth	70	19	11.0	1.4										
3C	150	37	16.2	3.4	0.3	1.8	63.8	0.4	3.5	73.6	3.2	0.126	21.0	10,990
Earth	95	19	12.9	1.6										
3C	185	37	18.0	3.4	0.3	1.8	67.3	0.4	3.6	77.3	3.4	0.100	21.0	12,520
Earth	95	19	12.9	1.6										
3C	240	61	20.6	3.4	0.4	1.8	74.0	0.4	3.9	84.6	3.7	0.0762	21.0	15,560
Earth	120	37	14.5	1.6										

HV Power Cable

6/10kV FX-RFOU, 6/10kV FX-RFBU / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Dia of copper wire for braid	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.							Nominal	Toler-ance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
1	16	6.3	3.4	0.3	1.0	19.0	0.3	1.6	24.2	1.3	960
	25	7.8	3.4	0.3	1.0	20.6	0.3	1.7	26.0	1.3	1,150
	35	9.2	3.4	0.3	1.0	21.8	0.3	1.7	27.2	1.4	1,290
	50	11.0	3.4	0.3	1.0	23.2	0.3	1.8	28.8	1.5	1,500
	70	13.1	3.4	0.3	1.0	25.1	0.3	1.9	30.9	1.5	1,790
	95	15.1	3.4	0.3	1.0	26.8	0.3	1.9	32.6	1.6	2,090
	120	17.0	3.4	0.3	1.2	29.1	0.3	2.0	35.1	1.7	2,470
	150	19.0	3.4	0.3	1.2	30.7	0.4	2.1	37.3	1.8	2,900
	185	21.0	3.4	0.3	1.2	32.2	0.4	2.2	39.0	1.9	3,300
	240	24.0	3.4	0.4	1.2	35.7	0.4	2.3	42.7	2.0	4,190
	300	27.0	3.4	0.4	1.4	38.6	0.4	2.4	45.8	2.1	4,990

6/10kV FX-RFOU, 6/10kV FX-RFCU, 6/10kV FX-RFBU / Class5 Conductor

3	16	6.3	3.4	0.3	1.4	39.4	0.4	2.5	46.8	2.2	3,380
	25	7.8	3.4	0.3	1.4	42.9	0.4	2.6	50.5	2.3	4,030
	35	9.2	3.4	0.3	1.4	45.5	0.4	2.7	53.3	2.4	4,600
	50	11.0	3.4	0.3	1.6	48.9	0.4	2.8	56.9	2.6	5,380
	70	13.1	3.4	0.3	1.6	53.0	0.4	3.0	61.4	2.8	6,450
	95	15.1	3.4	0.3	1.6	56.6	0.4	3.1	65.2	2.9	7,510
	120	17.0	3.4	0.3	1.6	60.7	0.4	3.3	69.7	3.1	8,790
	150	19.0	3.4	0.3	1.8	64.6	0.4	3.5	74.0	3.3	10,100
	185	21.0	3.4	0.3	1.8	67.8	0.4	3.6	77.4	3.4	11,430
	240	24.0	3.4	0.4	1.8	75.4	0.4	3.9	85.6	3.7	14,590
3C	25	7.8	3.4	0.3	1.4	42.9	0.4	2.6	50.5	2.3	4,130
Earth	16	6.3	1.0								
3C	35	9.2	3.4	0.3	1.4	45.5	0.4	2.7	53.3	2.4	4,770
Earth	25	7.8	1.2								
3C	50	11.0	3.4	0.3	1.6	48.9	0.4	2.8	56.9	2.6	5,550
Earth	25	7.8	1.2								
3C	70	13.1	3.4	0.3	1.6	53.0	0.4	3.0	61.4	2.8	6,680
Earth	35	9.2	1.2								
3C	95	15.1	3.4	0.3	1.6	57.1	0.4	3.2	65.9	2.9	7,940
Earth	50	11.0	1.4								
3C	120	17.0	3.4	0.3	1.6	61.7	0.4	3.3	70.7	3.1	9,400
Earth	70	13.1	1.4								
3C	150	19.0	3.4	0.3	1.8	66.1	0.4	3.5	75.5	3.3	10,950
Earth	95	15.1	1.6								
3C	185	21.0	3.4	0.3	1.8	68.9	0.4	3.6	78.5	3.4	12,220
Earth	95	15.1	1.6								
3C	240	24.0	3.4	0.4	1.8	76.6	0.4	3.9	86.8	3.8	15,590
Earth	120	17.0	1.6								

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

8.7/15kV RFOU, 8.7/15kV RFBU / Class2 Conductor

No. of Cores	Conductor			Thickness of Insulation	Dia of copper wire for braid	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Conductor Resistance (at 20℃) (Max.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.							Nominal	Toler-ance			
No.	mm^2	EA	mm	mm	mm	mm	mm	mm	mm	mm	±mm	Ω/km	V/5min.	kg/km
1	25	7	6.6	4.5	0.3	1.0	22.0	0.3	1.8	27.9	1.4	0.734	30.5	1,300
	35	7	7.9	4.5	0.3	1.0	23.2	0.3	1.8	29.1	1.5	0.529	30.5	1,460
	50	19	9.1	4.5	0.3	1.0	24.5	0.3	1.9	30.6	1.5	0.391	30.5	1,660
	70	19	11.0	4.5	0.3	1.0	26.3	0.3	1.9	32.4	1.6	0.270	30.5	1,960
	95	19	12.9	4.5	0.3	1.2	28.6	0.3	2.0	34.9	1.7	0.195	30.5	2,370
	120	37	14.5	4.5	0.3	1.2	30.2	0.4	2.1	37.2	1.8	0.154	30.5	2,810
	150	37	16.2	4.5	0.3	1.2	31.8	0.4	2.2	39.0	1.9	0.126	30.5	3,180
	185	37	18.0	4.5	0.3	1.2	33.6	0.4	2.2	40.8	1.9	0.100	30.5	3,630
	240	61	20.6	4.5	0.4	1.2	36.7	0.4	2.4	44.3	2.1	0.0762	30.5	4,490
	300	61	23.1	4.5	0.4	1.4	39.5	0.4	2.5	47.3	2.2	0.0607	30.5	5,290
	400	61	26.1	4.5	0.4	1.4	42.9	0.4	2.6	50.9	2.3	0.0475	30.5	6,450
	500	61	29.2	4.5	0.4	1.4	45.6	0.4	2.7	53.8	2.5	0.0369	30.5	7,460
	630	91	33.2	4.5	0.4	1.6	50.2	0.4	2.9	58.8	2.7	0.0286	30.5	9,270

8.7/15KV RFOU, 8.7/15KV RFBU, 8.7/15KV RFCU / Class2 Conductor

3	25	7	6.6	4.5	0.3	1.4	45.9	0.4	2.7	54.1	2.5	0.734	30.5	4,430
	35	7	7.9	4.5	0.3	1.6	48.9	0.4	2.9	57.5	2.6	0.529	30.5	5,110
	50	19	9.1	4.5	0.3	1.6	51.7	0.4	3.0	60.5	2.7	0.391	30.5	5,810
	70	19	11.0	4.5	0.3	1.6	55.6	0.4	3.1	64.6	2.9	0.270	30.5	6,900
	95	19	12.9	4.5	0.3	1.6	59.7	0.4	3.3	69.1	3.1	0.195	30.5	8,210
	120	37	14.5	4.5	0.3	1.6	63.1	0.4	3.4	72.7	3.2	0.154	30.5	9,380
	150	37	16.2	4.5	0.3	1.8	67.0	0.4	3.6	77.0	3.4	0.126	30.5	10,750
	185	37	18.0	4.5	0.3	1.8	70.8	0.4	3.7	81.0	3.5	0.100	30.5	12,330
	240	61	20.6	4.5	0.4	1.8	77.5	0.4	4.0	88.3	3.8	0.0762	30.5	15,260
3C	25	7	6.6	4.5	0.3	1.4	45.9	0.4	2.7	54.1	2.5	0.734	30.5	4,670
Earth	16	7	5.3	1.0										
3C	35	7	7.9	4.5	0.3	1.6	48.9	0.4	2.9	57.5	2.6	0.529	30.5	5,420
Earth	25	7	6.6	1.2										
3C	50	19	9.1	4.5	0.3	1.6	51.7	0.4	3.0	60.5	2.7	0.391	30.5	6,140
Earth	25	7	6.6	1.2										
3C	70	19	11.0	4.5	0.3	1.6	55.6	0.4	3.1	64.6	2.9	0.270	30.5	7,320
Earth	35	7	7.9	1.2										
3C	95	19	12.9	4.5	0.3	1.6	59.7	0.4	3.3	69.1	3.1	0.195	30.5	8,730
Earth	50	19	9.1	1.4										
3C	120	37	14.5	4.5	0.3	1.8	63.9	0.4	3.5	73.7	3.2	0.154	30.5	10,250
Earth	70	19	11.0	1.4										
3C	150	37	16.2	4.5	0.3	1.8	68.0	0.4	3.6	78.0	3.4	0.126	30.5	11,830
Earth	95	19	12.9	1.6										
3C	185	37	18.0	4.5	0.3	1.8	71.5	0.4	3.8	81.9	3.6	0.100	30.5	13,430
Earth	95	19	12.9	1.6										
3C	240	61	20.6	4.5	0.4	1.8	78.3	0.4	4.0	89.1	3.9	0.0762	30.5	16,540
Earth	120	37	14.5	1.6										

HV Power Cable

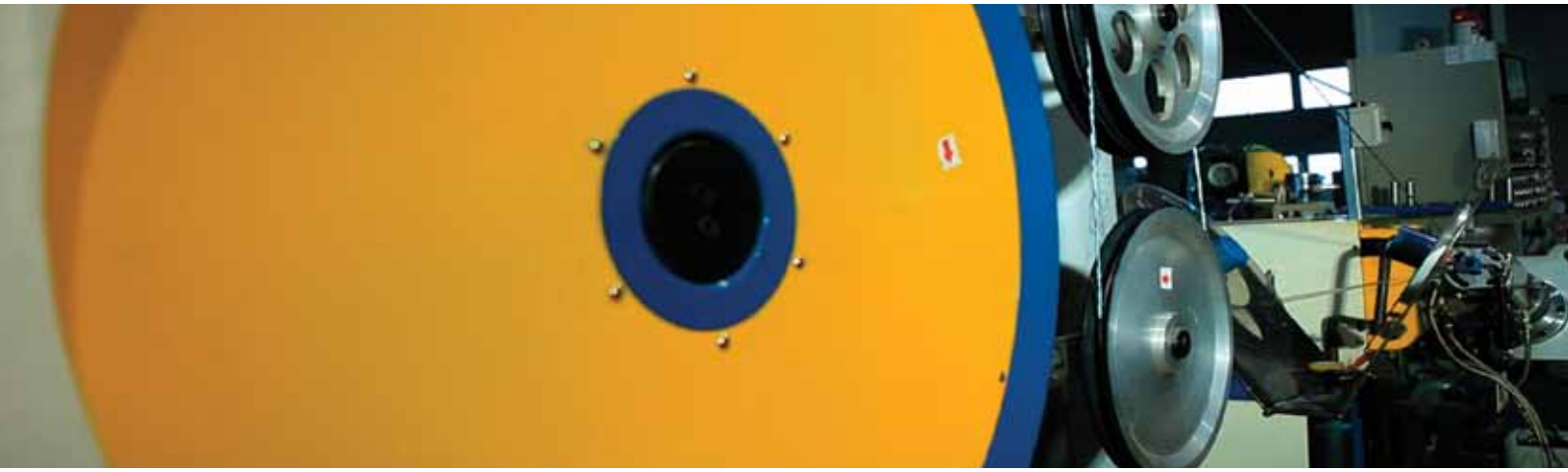
8.7/15kV FX-RFOU, 8.7/15kV FX-RFBU / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Dia of copper wire for braid	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.							Nominal	Toler-ance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
1	25	7.8	4.5	0.3	1.0	22.8	0.3	1.8	28.4	1.4	1,310
	35	9.2	4.5	0.3	1.0	24.0	0.3	1.8	29.6	1.5	1,470
	50	11.0	4.5	0.3	1.0	25.4	0.3	1.9	31.2	1.5	1,680
	70	13.1	4.5	0.3	1.2	27.7	0.3	2.0	33.7	1.6	2,020
	95	15.1	4.5	0.3	1.2	29.4	0.3	2.0	35.4	1.7	2,320
	120	17.0	4.5	0.3	1.2	31.3	0.4	2.1	37.9	1.8	2,780
	150	19.0	4.5	0.3	1.2	32.9	0.4	2.2	39.7	1.9	3,130
	185	21.0	4.5	0.4	1.2	34.8	0.4	2.3	41.8	2.0	3,640
	240	24.0	4.5	0.4	1.4	38.3	0.4	2.4	45.5	2.1	4,490
	300	27.0	4.5	0.4	1.4	40.8	0.4	2.5	48.2	2.2	5,270

8.7/15kV FX-RFOU, 8.7/15kV FX-RFCU, 8.7/15kV FX-RFBU / Class5 Conductor

3	25	7.8	4.5	0.3	1.4	47.6	0.4	2.8	55.6	2.5	4,720
	35	9.2	4.5	0.3	1.6	50.6	0.4	2.9	58.8	2.7	5,380
	50	11.0	4.5	0.3	1.6	53.6	0.4	3.0	62.0	2.8	6,140
	70	13.1	4.5	0.3	1.6	57.7	0.4	3.2	66.5	3.0	7,260
	95	15.1	4.5	0.3	1.6	61.4	0.4	3.3	70.4	3.1	8,390
	120	17.0	4.5	0.3	1.8	65.9	0.4	3.5	75.3	3.3	9,790
	150	19.0	4.5	0.3	1.8	69.3	0.4	3.6	78.9	3.5	11,010
	185	21.0	4.5	0.4	1.8	73.4	0.4	3.8	83.4	3.6	12,770
	240	24.0	4.5	0.4	1.8	80.1	0.4	4.1	90.7	3.9	15,690
3C	25	7.8	4.5	0.3	1.4	47.6	0.4	2.8	55.6	2.5	4,820
Earth	16	6.3	1.0								
3C	35	9.2	4.5	0.3	1.6	50.6	0.4	2.9	58.8	2.7	5,550
Earth	25	7.8	1.2								
3C	50	11.0	4.5	0.3	1.6	53.6	0.4	3.0	62.0	2.8	6,310
Earth	25	7.8	1.2								
3C	70	13.1	4.5	0.3	1.6	57.7	0.4	3.2	66.5	3.0	7,500
Earth	35	9.2	1.2								
3C	95	15.1	4.5	0.3	1.6	61.5	0.4	3.3	70.5	3.1	8,710
Earth	50	11.0	1.4								
3C	120	17.0	4.5	0.3	1.8	66.4	0.4	3.5	75.8	3.3	10,320
Earth	70	13.1	1.4								
3C	150	19.0	4.5	0.3	1.8	70.4	0.4	3.7	80.2	3.5	11,850
Earth	95	15.1	1.6								
3C	185	21.0	4.5	0.4	1.8	74.0	0.4	3.8	84.0	3.7	13,470
Earth	95	15.1	1.6								
3C	240	24.0	4.5	0.4	1.8	80.8	0.4	4.1	91.4	4.0	16,590
Earth	120	17.0	1.6								

LV Power & Lighting Cable



LV Power & Lighting Cable

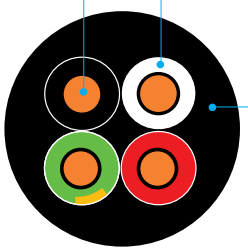
Cable Designation (P11)

0.6/1kV RU

Application Standard

- Design guide	: NEK-606 & IEC 60092-353
- Flame retardant	: IEC 60332-1 & IEC 60332-3 Category A
- Halogen content	: IEC 60754-1, 0.5% ↓
- Cold bend / impact	: CSA 22.2 No.03 (-40℃/-35℃)
- Mud / Oil resistant	: NEK-606 (Category a, b, c, d)
- Smoke light transmittance	: IEC 61034, 60% ↑
- Sunlight (UV) resistant	: UL 1581

Construction

Sectional view	Classification	Code	Construction detail
	Conductor	FX-	- Stranded tinned annealed copper wires as per IEC 60228, Class 2 - Option : Stranded tinned annealed copper wires as per IEC 60228, Class 5 (FX-added)
	Insulation	R	- EPR as per IEC 60092-360
	Cabling		- Insulated cores shall be cabled - Flame retardant & non-hygroscopic fillers may be used - Suitable tape(s) may be applied on the cabled core - A Filler may be applied to obtain a circular Cable
	Sheath	U	- SHF2 as per IEC 60092-360 - Option : NEK-606 (Category a, b, c, d) / Mud or oil resistant - Outer sheath color : black
	Core identification		

No. of cores	Without Earth core	With Earth core
1C	Off-white or Black	-
2C	Off-white, Black	-
3C / 2C + E	Off-white, Black, Red	Off-white, Black, G/Y
4C / 3C + E	Off-white, Black, Red, Blue	Off-white, Black, Red, G/Y
5C / 4C + E	Black No. on white insulation	Off-white, Black, Red, Blue, G/Y
6C and over	Black No. on white insulation	Black No. on white insulation, G/Y

Note. Earth core(G/Y) : Yellow/Green(Green base color with yellow stripe)

LV Power & Lighting Cable

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV RU / Class2 Conductor

No. of Cores	Conductor			Thickness of Insulation	Thickness of sheath	Overall diameter		Conductor Resistance (at 20℃) (Max.)	Insulation Resistance (at 20℃) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.			Nominal	Tolerance				
No.	mm^2	EA	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
1	1.5	7	1.7	1.0	1.0	5.8	0.5	12.2	1,320	3,500	60
	2.5	7	2.2	1.0	1.0	6.2	0.5	7.56	1,110	3,500	70
	4	7	2.7	1.0	1.0	6.7	0.6	4.70	940	3,500	90
	6	7	3.3	1.0	1.0	7.3	0.6	3.110	800	3,500	110
	10	7	4.2	1.0	1.0	8.2	0.6	1.840	650	3,500	160
	16	7	5.3	1.0	1.1	9.4	0.7	1.160	540	3,500	230
	25	7	6.6	1.2	1.1	11.1	0.7	0.734	520	3,500	340
	35	7	7.9	1.2	1.2	12.4	0.8	0.529	450	3,500	450
	50	19	9.1	1.4	1.3	14.4	0.9	0.391	440	3,500	600
	70	19	11.0	1.4	1.3	16.1	0.9	0.270	380	3,500	810
	95	19	12.9	1.6	1.4	18.6	1.0	0.195	370	3,500	1,100
	120	37	14.5	1.6	1.5	20.3	1.1	0.154	330	3,500	1,360
	150	37	16.2	1.8	1.6	22.4	1.2	0.126	330	3,500	1,650
	185	37	18.0	2.0	1.7	25.1	1.3	0.100	330	3,500	2,070
	240	61	20.6	2.2	1.8	28.3	1.4	0.0762	320	3,500	2,690
	300	61	23.1	2.4	1.9	31.5	1.6	0.0607	310	3,500	3,340
	400	61	26.1	2.6	2.1	36.0	1.7	0.0475	290	3,500	4,520
	500	61	29.2	2.8	2.2	39.3	1.9	0.0369	280	3,500	5,450
	630	91	33.2	2.8	2.3	43.7	2.0	0.0286	250	3,500	6,990
2	1.5	7	1.7	1.0	1.1	9.6	0.7	12.2	1,320	3,500	140
	2.5	7	2.2	1.0	1.1	10.4	0.7	7.56	1,110	3,500	170
	4	7	2.7	1.0	1.2	11.6	0.8	4.70	940	3,500	230
	6	7	3.3	1.0	1.2	12.8	0.8	3.110	800	3,500	290
	10	7	4.2	1.0	1.3	14.8	0.9	1.840	650	3,500	390
	16	7	5.3	1.0	1.4	17.0	1.0	1.160	540	3,500	550
	25	7	6.6	1.2	1.5	20.6	1.1	0.734	520	3,500	840
	35	7	7.9	1.2	1.6	23.0	1.2	0.529	450	3,500	1,090
	50	19	9.1	1.4	1.7	26.8	1.4	0.391	440	3,500	1,450
	70	19	11.0	1.4	1.9	30.8	1.5	0.270	380	3,500	2,000
	95	19	12.9	1.6	2.0	35.6	1.7	0.195	370	3,500	2,690
	120	37	14.5	1.6	2.2	39.0	1.9	0.154	330	3,500	3,300
	150	37	16.2	1.8	2.3	43.0	2.0	0.126	330	3,500	4,000
	185	37	18.0	2.0	2.5	48.4	2.2	0.100	330	3,500	5,030
	240	61	20.6	2.2	2.8	55.0	2.5	0.0762	320	3,500	6,550
	300	61	23.1	2.4	3.0	61.0	2.7	0.0607	310	3,500	8,090
2C+E	1.5	7	1.7	1.0	1.1	10.2	0.7	12.2	1,320	3,500	160
2C+E	2.5	7	2.2	1.0	1.1	11.0	0.7	7.56	1,110	3,500	210
2C+E	4	7	2.7	1.0	1.2	12.3	0.8	4.70	940	3,500	270
2C+E	6	7	3.3	1.0	1.2	13.6	0.8	3.110	800	3,500	360
2C+E	10	7	4.2	1.0	1.3	15.7	0.9	1.840	650	3,500	510
2C+E	16	7	5.3	1.0	1.4	18.1	1.0	1.160	540	3,500	730
2C	25	7	6.6	1.2	1.5	21.3	1.2	0.734	520	3,500	1,000
Earth	16	7	5.3	1.0				1.160			
2C	35	7	7.9	1.2	1.6	24.1	1.3	0.529	450	3,500	1,360
Earth	25	7	6.6	1.2				0.734			
2C	50	19	9.1	1.4	1.8	27.7	1.4	0.391	440	3,500	1,730
Earth	25	7	6.6	1.2				0.734			
2C	70	19	11.0	1.4	1.9	31.6	1.6	0.270	380	3,500	2,350
Earth	35	7	7.9	1.2				0.529			
2C	95	19	12.9	1.6	2.1	36.7	1.8	0.195	370	3,500	3,190
Earth	50	19	9.1	1.4				0.391			
2C	120	37	14.5	1.6	2.2	40.2	1.9	0.154	330	3,500	3,970
Earth	70	19	11.0	1.4				0.270			
2C	150	37	16.2	1.8	2.4	44.9	2.1	0.126	330	3,500	4,970
Earth	95	19	12.9	1.6				0.195			
2C	185	37	18.0	2.0	2.6	49.7	2.3	0.100	330	3,500	5,980
Earth	95	19	12.9	1.6				0.195			
2C	240	61	20.6	2.2	2.8	56.0	2.5	0.0762	320	3,500	7,660
Earth	120	37	14.5	1.6				0.154			

LV Power & Lighting Cable

0.6/1kV RU / Class2 Conductor

No. of Cores	Conductor			Thickness of Insulation	Thickness of sheath	Overall diameter		Conductor Resistance (at 20℃) (Max.)	Insulation Resistance (at 20℃) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.			Nominal	Tolerance				
No.	mm²	EA	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
3	1.5	7	1.7	1.0	1.1	10.2	0.7	12.2	1,320	3,500	160
	2.5	7	2.2	1.0	1.1	11.0	0.7	7.56	1,110	3,500	210
	4	7	2.7	1.0	1.2	12.3	0.8	4.70	940	3,500	270
	6	7	3.3	1.0	1.2	13.6	0.8	3.110	800	3,500	360
	10	7	4.2	1.0	1.3	15.7	0.9	1.840	650	3,500	510
	16	7	5.3	1.0	1.4	18.1	1.0	1.160	540	3,500	730
	25	7	6.6	1.2	1.5	21.9	1.2	0.734	520	3,500	1,110
	35	7	7.9	1.2	1.6	24.5	1.3	0.529	450	3,500	1,450
	50	19	9.1	1.4	1.8	29.0	1.5	0.391	440	3,500	1,990
	70	19	11.0	1.4	1.9	32.9	1.6	0.270	380	3,500	2,700
	95	19	12.9	1.6	2.1	38.2	1.8	0.195	370	3,500	3,670
	120	37	14.5	1.6	2.3	41.9	2.0	0.154	330	3,500	4,520
	150	37	16.2	1.8	2.4	46.1	2.1	0.126	330	3,500	5,480
	185	37	18.0	2.0	2.7	52.1	2.4	0.100	330	3,500	6,930
	240	61	20.6	2.2	2.9	59.0	2.7	0.0762	320	3,500	8,970
	300	61	23.1	2.4	3.2	65.6	2.9	0.0607	310	3,500	11,140
3C+E	1.5	7	1.7	1.0	1.1	11.1	0.7	12.2	1,320	3,500	200
3C+E	2.5	7	2.2	1.0	1.2	12.3	0.8	7.56	1,110	3,500	260
3C+E	4	7	2.7	1.0	1.2	13.5	0.8	4.70	940	3,500	340
3C+E	6	7	3.3	1.0	1.3	15.1	0.9	3.110	800	3,500	450
3C+E	10	7	4.2	1.0	1.4	17.5	1.0	1.840	650	3,500	650
3C+E	16	7	5.3	1.0	1.5	20.1	1.1	1.160	540	3,500	930
3C	25	7	6.6	1.2	1.6	23.8	1.3	0.734	520	3,500	1,330
Earth	16	7	5.3	1.0				1.160			
3C	35	7	7.9	1.2	1.7	26.9	1.4	0.529	450	3,500	1,780
Earth	25	7	6.6	1.2				0.734			
3C	50	19	9.1	1.4	1.9	31.2	1.5	0.391	440	3,500	2,330
Earth	25	7	6.6	1.2				0.734			
3C	70	19	11.0	1.4	2.0	35.3	1.7	0.270	380	3,500	3,140
Earth	35	7	7.9	1.2				0.529			
3C	95	19	12.9	1.6	2.3	41.3	2.0	0.195	370	3,500	4,300
Earth	50	19	9.1	1.4				0.391			
3C	120	37	14.5	1.6	2.4	45.2	2.1	0.154	330	3,500	5,330
Earth	70	19	11.0	1.4				0.270			
3C	150	37	16.2	1.8	2.6	50.3	2.3	0.126	330	3,500	6,620
Earth	95	19	12.9	1.6				0.195			
3C	185	37	18.0	2.0	2.8	55.9	2.5	0.100	330	3,500	8,060
Earth	95	19	12.9	1.6				0.195			
3C	240	61	20.6	2.2	3.1	63.2	2.8	0.0762	320	3,500	10,400
Earth	120	37	14.5	1.6				0.154			
4	1.5	7	1.7	1.0	1.1	11.1	0.7	12.2	1,320	3,500	200
	2.5	7	2.2	1.0	1.2	12.3	0.8	7.56	1,110	3,500	260
	4	7	2.7	1.0	1.2	13.5	0.8	4.70	940	3,500	340
	6	7	3.3	1.0	1.3	15.1	0.9	3.110	800	3,500	450
	10	7	4.2	1.0	1.4	17.5	1.0	1.840	650	3,500	650
	16	7	5.3	1.0	1.5	20.1	1.1	1.160	540	3,500	930
	25	7	6.6	1.2	1.6	24.4	1.3	0.734	520	3,500	1,430
	35	7	7.9	1.2	1.7	27.3	1.4	0.529	450	3,500	1,880
	50	19	9.1	1.4	1.9	32.2	1.6	0.391	440	3,500	2,570
	70	19	11.0	1.4	2.1	36.7	1.8	0.270	380	3,500	3,510
	95	19	12.9	1.6	2.3	42.7	2.0	0.195	370	3,500	4,790
	120	37	14.5	1.6	2.5	46.7	2.2	0.154	330	3,500	5,880
	150	37	16.2	1.8	2.6	51.5	2.4	0.126	330	3,500	7,140
	185	37	18.0	2.0	2.9	58.1	2.6	0.100	330	3,500	9,010
	240	61	20.6	2.2	3.2	65.9	2.9	0.0762	320	3,500	11,720
	300	61	23.1	2.4	3.4	73.1	3.2	0.0607	310	3,500	14,500

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV RU / Class2 Conductor

No. of Cores	Conductor			Thickness of Insulation	Thickness of sheath	Overall diameter		Conductor Resistance (at 20℃) (Max.)	Insulation Resistance (at 20℃) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.			Nominal	Toler-ance				
No.	mm^2	EA	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
4C+E	1.5	7	1.7	1.0	1.2	12.3	0.8	12.2	1,320	3,500	240
4C+E	2.5	7	2.2	1.0	1.2	13.4	0.8	7.56	1,110	3,500	310
4C+E	4	7	2.7	1.0	1.3	15.0	0.9	4.70	940	3,500	420
4C+E	6	7	3.3	1.0	1.4	16.8	1.0	3.110	800	3,500	560
4C+E	10	7	4.2	1.0	1.4	19.2	1.1	1.840	650	3,500	790
4C+E	16	7	5.3	1.0	1.6	22.3	1.2	1.160	540	3,500	1,150
4C	25	7	6.6	1.2	1.7	26.6	1.4	0.734	520	3,500	1,670
Earth	16	7	5.3	1.0				1.160			
4C	35	7	7.9	1.2	1.8	30.1	1.5	0.529	450	3,500	2,250
Earth	25	7	6.6	1.2				0.734			
4C	50	19	9.1	1.4	2.0	34.8	1.7	0.391	440	3,500	2,940
Earth	25	7	6.6	1.2				0.734			
4C	70	19	11.0	1.4	2.2	39.6	1.9	0.270	380	3,500	4,000
Earth	35	7	7.9	1.2				0.529			
4C	95	19	12.9	1.6	2.4	46.0	2.1	0.195	370	3,500	5,430
Earth	50	19	9.1	1.4				0.391			
4C	120	37	14.5	1.6	2.6	50.5	2.3	0.154	330	3,500	6,750
Earth	70	19	11.0	1.4				0.270			
4C	150	37	16.2	1.8	2.8	56.2	2.5	0.126	330	3,500	8,350
Earth	95	19	12.9	1.6				0.195			
4C	185	37	18.0	2.0	3.0	62.5	2.8	0.100	330	3,500	10,230
Earth	95	19	12.9	1.6				0.195			
4C	240	61	20.6	2.2	3.3	70.7	3.1	0.0762	320	3,500	13,220
Earth	120	37	14.5	1.6				0.154			
5	1.5	7	1.7	1.0	1.2	12.3	0.8	12.2	1,320	3,500	240
5	2.5	7	2.2	1.0	1.2	13.4	0.8	7.56	1,110	3,500	310
5	4	7	2.7	1.0	1.3	15.0	0.9	4.70	940	3,500	420
5	6	7	3.3	1.0	1.4	16.8	1.0	3.110	800	3,500	560
5	10	7	4.2	1.0	1.4	19.2	1.1	1.840	650	3,500	790
5	16	7	5.3	1.0	1.6	22.3	1.2	1.160	540	3,500	1,150
5	25	7	6.6	1.2	1.7	27.1	1.4	0.734	520	3,500	1,780
5	35	7	7.9	1.2	1.9	30.7	1.5	0.529	450	3,500	2,370
5	50	19	9.1	1.4	2.1	35.9	1.7	0.391	440	3,500	3,200
5	70	19	11.0	1.4	2.2	40.7	1.9	0.270	380	3,500	4,350
5	95	19	12.9	1.6	2.5	47.5	2.2	0.195	370	3,500	5,950
5	120	37	14.5	1.6	2.6	51.8	2.4	0.154	330	3,500	7,270
5	150	37	16.2	1.8	2.9	57.5	2.6	0.126	330	3,500	8,910
5	185	37	18.0	2.0	3.1	64.7	2.9	0.100	330	3,500	11,200
5	240	61	20.6	2.2	3.4	73.4	3.2	0.0762	320	3,500	14,560

LV Power & Lighting Cable

0.6/1kV RU / Class2 Conductor

No. of Cores	Conductor			Thickness of Insulation	Thickness of sheath	Overall diameter		Conductor Resistance (at 20℃) (Max.)	Insulation Resistance (at 20℃) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.			Nominal	Toler-ance				
No.	mm^2	EA	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
2	1.0	7	1.4	1.0	1.1	9.0	0.7	18.2	1,490	3,500	110
5	1.0	7	1.4	1.0	1.2	11.5	0.8	18.2	1,490	3,500	190
7	1.0	7	1.4	1.0	1.2	12.5	0.8	18.2	1,490	3,500	240
8	1.0	7	1.4	1.0	1.2	13.5	0.8	18.2	1,490	3,500	270
9	1.0	7	1.4	1.0	1.3	14.7	0.9	18.2	1,490	3,500	310
10	1.0	7	1.4	1.0	1.3	16.0	0.9	18.2	1,490	3,500	340
12	1.0	7	1.4	1.0	1.3	16.5	1.0	18.2	1,490	3,500	390
14	1.0	7	1.4	1.0	1.4	17.6	1.0	18.2	1,490	3,500	450
16	1.0	7	1.4	1.0	1.4	18.5	1.0	18.2	1,490	3,500	500
19	1.0	7	1.4	1.0	1.5	19.7	1.1	18.2	1,490	3,500	580
24	1.0	7	1.4	1.0	1.6	23.2	1.2	18.2	1,490	3,500	740
27	1.0	7	1.4	1.0	1.6	23.7	1.2	18.2	1,490	3,500	800
30	1.0	7	1.4	1.0	1.6	24.6	1.3	18.2	1,490	3,500	870
37	1.0	7	1.4	1.0	1.7	26.7	1.4	18.2	1,490	3,500	1,060
44	1.0	7	1.4	1.0	1.9	30.6	1.5	18.2	1,490	3,500	1,300
2	1.5	7	1.7	1.0	1.1	9.6	0.7	12.2	1,320	3,500	140
5	1.5	7	1.7	1.0	1.2	12.3	0.8	12.2	1,320	3,500	240
7	1.5	7	1.7	1.0	1.2	13.4	0.8	12.2	1,320	3,500	290
8	1.5	7	1.7	1.0	1.3	14.7	0.9	12.2	1,320	3,500	340
9	1.5	7	1.7	1.0	1.3	15.8	0.9	12.2	1,320	3,500	380
10	1.5	7	1.7	1.0	1.4	17.4	1.0	12.2	1,320	3,500	430
12	1.5	7	1.7	1.0	1.4	18.0	1.0	12.2	1,320	3,500	480
14	1.5	7	1.7	1.0	1.4	18.9	1.1	12.2	1,320	3,500	550
16	1.5	7	1.7	1.0	1.5	20.1	1.1	12.2	1,320	3,500	620
19	1.5	7	1.7	1.0	1.5	21.2	1.1	12.2	1,320	3,500	710
24	1.5	7	1.7	1.0	1.7	25.2	1.3	12.2	1,320	3,500	920
27	1.5	7	1.7	1.0	1.7	25.8	1.3	12.2	1,320	3,500	1,000
30	1.5	7	1.7	1.0	1.7	26.7	1.4	12.2	1,320	3,500	1,090
37	1.5	7	1.7	1.0	1.8	29.2	1.5	12.2	1,320	3,500	1,340
44	1.5	7	1.7	1.0	2.0	33.2	1.6	12.2	1,320	3,500	1,620
2	2.5	7	2.2	1.0	1.1	10.4	0.7	7.56	1,110	3,500	170
5	2.5	7	2.2	1.0	1.2	13.4	0.8	7.56	1,110	3,500	310
7	2.5	7	2.2	1.0	1.3	14.8	0.9	7.56	1,110	3,500	390
8	2.5	7	2.2	1.0	1.3	16.0	0.9	7.56	1,110	3,500	430
9	2.5	7	2.2	1.0	1.4	17.5	1.0	7.56	1,110	3,500	490
10	2.5	7	2.2	1.0	1.4	19.0	1.1	7.56	1,110	3,500	550
12	2.5	7	2.2	1.0	1.5	19.8	1.1	7.56	1,110	3,500	640
14	2.5	7	2.2	1.0	1.5	20.9	1.1	7.56	1,110	3,500	720
16	2.5	7	2.2	1.0	1.6	22.2	1.2	7.56	1,110	3,500	820
19	2.5	7	2.2	1.0	1.6	23.4	1.2	7.56	1,110	3,500	950
24	2.5	7	2.2	1.0	1.8	27.8	1.4	7.56	1,110	3,500	1,210
27	2.5	7	2.2	1.0	1.8	28.4	1.4	7.56	1,110	3,500	1,330
30	2.5	7	2.2	1.0	1.8	29.7	1.5	7.56	1,110	3,500	1,480
37	2.5	7	2.2	1.0	1.9	32.2	1.6	7.56	1,110	3,500	1,780
44	2.5	7	2.2	1.0	2.1	36.6	1.8	7.56	1,110	3,500	2,150
2	4	7	2.7	1.0	1.2	11.6	0.8	4.70	940	3,500	230
5	4	7	2.7	1.0	1.3	15.0	0.9	4.70	940	3,500	420
7	4	7	2.7	1.0	1.3	16.3	1.0	4.70	940	3,500	510
8	4	7	2.7	1.0	1.4	17.9	1.0	4.70	940	3,500	590
9	4	7	2.7	1.0	1.5	19.5	1.1	4.70	940	3,500	660
10	4	7	2.7	1.0	1.5	21.2	1.1	4.70	940	3,500	730
12	4	7	2.7	1.0	1.5	21.9	1.2	4.70	940	3,500	850
14	4	7	2.7	1.0	1.6	23.3	1.2	4.70	940	3,500	980
16	4	7	2.7	1.0	1.6	24.6	1.3	4.70	940	3,500	1,100
19	4	7	2.7	1.0	1.7	26.1	1.3	4.70	940	3,500	1,290
24	4	7	2.7	1.0	1.9	31.2	1.5	4.70	940	3,500	1,660
27	4	7	2.7	1.0	1.9	31.9	1.6	4.70	940	3,500	1,830
30	4	7	2.7	1.0	2.0	33.3	1.6	4.70	940	3,500	2,030
37	4	7	2.7	1.0	2.1	36.1	1.7	4.70	940	3,500	2,450
44	4	7	2.7	1.0	2.2	40.8	1.9	4.70	940	3,500	2,920

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV FX-RU / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	±mm	kg/km
1	1.5	1.8	1.0	1.0	6.4	0.6	70
	2.5	2.4	1.0	1.0	6.9	0.6	80
	4	3.0	1.0	1.0	7.4	0.6	100
	6	3.9	1.0	1.0	8.0	0.6	130
	10	5.1	1.0	1.0	8.9	0.7	170
	16	6.3	1.0	1.1	10.7	0.7	250
	25	7.8	1.2	1.2	12.9	0.8	370
	35	9.2	1.2	1.2	14.1	0.9	480
	50	11.0	1.4	1.3	16.4	1.0	670
	70	13.1	1.4	1.4	18.5	1.0	890
	95	15.1	1.6	1.5	20.8	1.1	1,150
	120	17.0	1.6	1.5	22.6	1.2	1,420
	150	19.0	1.8	1.6	25.0	1.3	1,750
	185	21.0	2.0	1.7	27.1	1.4	2,110
	240	24.0	2.2	1.8	30.4	1.5	2,720
	300	27.0	2.4	1.9	33.5	1.6	3,410
2	1.5	1.8	1.0	1.1	10.2	0.7	160
	2.5	2.4	1.0	1.1	11.2	0.7	200
	4	3.0	1.0	1.2	12.4	0.8	250
	6	3.9	1.0	1.2	13.6	0.8	320
	10	5.1	1.0	1.3	15.6	0.9	420
	16	6.3	1.0	1.4	19.0	1.1	630
	25	7.8	1.2	1.6	23.2	1.2	960
	35	9.2	1.2	1.7	25.8	1.3	1,250
	50	11.0	1.4	1.8	30.2	1.5	1,740
	70	13.1	1.4	2.0	34.4	1.7	2,360
	95	15.1	1.6	2.1	38.8	1.9	3,050
	120	17.0	1.6	2.3	42.8	2.0	3,810
	150	19.0	1.8	2.5	47.6	2.2	4,770
	185	21.0	2.0	2.6	51.6	2.4	5,720
	240	24.0	2.2	2.9	58.4	2.6	7,510
	300	27.0	2.4	3.1	64.6	2.9	9,440
2C+E	1.5	1.8	1.0	1.1	10.8	0.7	180
2C+E	2.5	2.4	1.0	1.2	12.0	0.8	240
2C+E	4	3.0	1.0	1.2	13.1	0.8	300
2C+E	6	3.9	1.0	1.2	14.4	0.9	390
2C+E	10	5.1	1.0	1.3	16.5	1.0	540
2C+E	16	6.3	1.0	1.5	20.4	1.1	830
2C	25	7.8	1.2	1.6	24.0	1.3	1,140
Earth	16	6.3	1.0				
2C	35	9.2	1.2	1.7	27.0	1.4	1,520
Earth	25	7.8	1.2				
2C	50	11.0	1.4	1.9	31.1	1.5	2,030
Earth	25	7.8	1.2				
2C	70	13.1	1.4	2.0	35.1	1.7	2,700
Earth	35	9.2	1.2				
2C	95	15.1	1.6	2.2	40.1	1.9	3,590
Earth	50	11.0	1.4				
2C	120	17.0	1.6	2.3	44.2	2.1	4,530
Earth	70	13.1	1.4				
2C	150	19.0	1.8	2.5	49.3	2.3	5,710
Earth	95	15.1	1.6				
2C	185	21.0	2.0	2.7	53.1	2.4	6,700
Earth	95	15.1	1.6				
2C	240	24.0	2.2	2.9	59.6	2.7	8,650
Earth	120	17.0	1.6				

LV Power & Lighting Cable

0.6/1kV FX-RU / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	±mm	kg/km
3	1.5	1.8	1.0	1.1	10.8	0.7	180
	2.5	2.4	1.0	1.2	12.0	0.8	240
	4	3.0	1.0	1.2	13.1	0.8	300
	6	3.9	1.0	1.2	14.4	0.9	390
	10	5.1	1.0	1.3	16.5	1.0	540
	16	6.3	1.0	1.5	20.4	1.1	830
	25	7.8	1.2	1.6	24.7	1.3	1,250
	35	9.2	1.2	1.7	27.5	1.4	1,630
	50	11.0	1.4	1.9	32.4	1.6	2,320
	70	13.1	1.4	2.1	36.9	1.8	3,150
	95	15.1	1.6	2.2	41.6	2.0	4,070
	120	17.0	1.6	2.4	45.9	2.1	5,100
	150	19.0	1.8	2.6	51.0	2.3	6,370
	185	21.0	2.0	2.8	55.5	2.5	7,730
	240	24.0	2.2	3.0	62.6	2.8	10,070
	300	27.0	2.4	3.3	69.4	3.1	12,750
3C+E	1.5	1.8	1.0	1.1	11.7	0.8	220
3C+E	2.5	2.4	1.0	1.2	13.1	0.8	290
3C+E	4	3.0	1.0	1.2	14.3	0.9	370
3C+E	6	3.9	1.0	1.3	16.0	0.9	490
3C+E	10	5.1	1.0	1.4	18.3	1.0	700
3C+E	16	6.3	1.0	1.5	22.4	1.2	1,050
3C	25	7.8	1.2	1.7	26.7	1.4	1,490
Earth	16	6.3	1.0				
3C	35	9.2	1.2	1.8	30.0	1.5	1,980
Earth	25	7.8	1.2				
3C	50	11.0	1.4	2.0	34.7	1.7	2,690
Earth	25	7.8	1.2				
3C	70	13.1	1.4	2.2	39.5	1.9	3,640
Earth	35	9.2	1.2				
3C	95	15.1	1.6	2.4	45.0	2.1	4,820
Earth	50	11.0	1.4				
3C	120	17.0	1.6	2.5	49.6	2.3	6,060
Earth	70	13.1	1.4				
3C	150	19.0	1.8	2.8	55.4	2.5	7,680
Earth	95	15.1	1.6				
3C	185	21.0	2.0	2.9	59.5	2.7	9,000
Earth	95	15.1	1.6				
3C	240	24.0	2.2	3.2	67.1	3.0	11,740
Earth	120	17.0	1.6				

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV FX-RU / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	±mm	kg/km
4	1.5	1.8	1.0	1.1	11.7	0.8	220
	2.5	2.4	1.0	1.2	13.1	0.8	290
	4	3.0	1.0	1.2	14.3	0.9	370
	6	3.9	1.0	1.3	16.0	0.9	490
	10	5.1	1.0	1.4	18.3	1.0	690
	16	6.3	1.0	1.5	22.4	1.2	1,050
	25	7.8	1.2	1.7	27.3	1.4	1,600
	35	9.2	1.2	1.8	30.4	1.5	2,090
	50	11.0	1.4	2.0	35.9	1.7	2,980
	70	13.1	1.4	2.2	40.9	1.9	4,060
	95	15.1	1.6	2.4	46.4	2.2	5,310
	120	17.0	1.6	2.6	51.1	2.3	6,640
	150	19.0	1.8	2.8	56.8	2.6	8,300
	185	21.0	2.0	3.0	61.8	2.8	10,060
	240	24.0	2.2	3.3	69.9	3.1	13,200
	300	27.0	2.4	3.6	77.5	3.4	16,710
4C+E	1.5	1.8	1.0	1.2	12.9	0.8	260
4C+E	2.5	2.4	1.0	1.2	14.3	0.9	340
4C+E	4	3.0	1.0	1.3	15.8	0.9	450
4C+E	6	3.9	1.0	1.4	17.6	1.0	600
4C+E	10	5.1	1.0	1.5	20.3	1.1	860
4C+E	16	6.3	1.0	1.6	24.8	1.3	1,300
4C	25	7.8	1.2	1.8	29.7	1.5	1,870
Earth	16	6.3	1.0				
4C	35	9.2	1.2	1.9	33.3	1.6	2,480
Earth	25	7.8	1.2				
4C	50	11.0	1.4	2.1	38.7	1.8	3,400
Earth	25	7.8	1.2				
4C	70	13.1	1.4	2.3	43.9	2.1	4,600
Earth	35	9.2	1.2				
4C	95	15.1	1.6	2.6	50.2	2.3	6,140
Earth	50	11.0	1.4				
4C	120	17.0	1.6	2.8	55.5	2.5	7,750
Earth	70	13.1	1.4				
4C	150	19.0	1.8	3.0	61.8	2.8	9,740
Earth	95	15.1	1.6				
4C	185	21.0	2.0	3.2	66.7	3.0	11,560
Earth	95	15.1	1.6				
4C	240	24.0	2.2	3.5	75.2	3.3	15,100
Earth	120	17.0	1.6				

LV Power & Lighting Cable

0.6/1kV FX-RU / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	±mm	kg/km
5	1.0	1.5	1.0	1.2	12.1	0.8	220
7	1.0	1.5	1.0	1.2	13.1	0.8	270
9	1.0	1.5	1.0	1.3	15.3	0.9	360
12	1.0	1.5	1.0	1.3	17.1	1.0	460
14	1.0	1.5	1.0	1.4	18.2	1.0	520
16	1.0	1.5	1.0	1.4	19.1	1.1	580
19	1.0	1.5	1.0	1.5	20.3	1.1	670
24	1.0	1.5	1.0	1.6	23.8	1.3	890
27	1.0	1.5	1.0	1.6	24.3	1.3	950
30	1.0	1.5	1.0	1.6	25.2	1.3	1,030
37	1.0	1.5	1.0	1.7	27.3	1.4	1,240
44	1.0	1.5	1.0	1.9	31.0	1.5	1,550
5	1.5	1.8	1.0	1.2	12.9	0.8	260
7	1.5	1.8	1.0	1.2	14.0	0.9	330
9	1.5	1.8	1.0	1.3	16.4	1.0	430
12	1.5	1.8	1.0	1.4	18.6	1.0	560
14	1.5	1.8	1.0	1.4	19.5	1.1	630
16	1.5	1.8	1.0	1.5	20.7	1.1	710
19	1.5	1.8	1.0	1.5	21.8	1.2	810
24	1.5	1.8	1.0	1.7	25.8	1.3	1,090
27	1.5	1.8	1.0	1.7	26.4	1.4	1,170
30	1.5	1.8	1.0	1.7	27.3	1.4	1,270
37	1.5	1.8	1.0	1.8	29.6	1.5	1,530
44	1.5	1.8	1.0	2.0	33.6	1.6	1,910
5	2.5	2.4	1.0	1.2	14.3	0.9	340
7	2.5	2.4	1.0	1.3	15.7	0.9	440
9	2.5	2.4	1.0	1.4	18.4	1.0	580
12	2.5	2.4	1.0	1.5	20.8	1.1	750
14	2.5	2.4	1.0	1.5	21.9	1.2	850
16	2.5	2.4	1.0	1.6	23.3	1.2	970
19	2.5	2.4	1.0	1.6	24.5	1.3	1,100
24	2.5	2.4	1.0	1.8	29.0	1.5	1,470
27	2.5	2.4	1.0	1.8	29.6	1.5	1,580
30	2.5	2.4	1.0	1.9	30.9	1.5	1,750
37	2.5	2.4	1.0	1.9	33.3	1.6	2,080
44	2.5	2.4	1.0	2.1	37.8	1.8	2,600
5	4	3.0	1.0	1.3	15.8	0.9	450
7	4	3.0	1.0	1.4	17.4	1.0	590
9	4	3.0	1.0	1.5	20.4	1.1	780
12	4	3.0	1.0	1.6	23.1	1.2	1,010
14	4	3.0	1.0	1.6	24.3	1.3	1,140
16	4	3.0	1.0	1.7	25.8	1.3	1,300
19	4	3.0	1.0	1.7	27.2	1.4	1,490
24	4	3.0	1.0	1.9	32.2	1.6	1,990
27	4	3.0	1.0	1.9	32.9	1.6	2,150
30	4	3.0	1.0	2.0	34.3	1.7	2,370
37	4	3.0	1.0	2.1	37.2	1.8	2,870
44	4	3.0	1.0	2.3	42.2	2.0	3,560

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

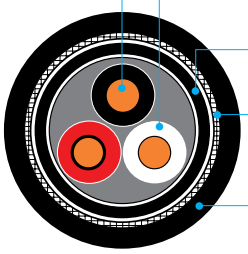
Cable Designation (P101)

0.6/1kV RFOU

Application Standard

- Design guide	: NEK-606& IEC 60092-353
- Flame retardant	: IEC 60332-1 & IEC 60332-3 Category A
- Halogen content	: IEC 60754-1, 0.5% ↓
- Cold bend / impact	: CSA 22.2 No.03 (-40℃/-35℃)
- Mud / Oil resistant	: NEK-606 (Category a, b, c, d)
- Smoke light transmittance	: IEC 61034, 60% ↑
- Sunlight (UV) resistant	: UL 1581

Construction

Sectional view	Classification	Code	Construction detail
	Conductor	FX-	- Stranded tinned annealed copper wires as per IEC 60228, Class 2 - Option : Stranded tinned annealed copper wires as per IEC 60228, Class 5 (FX-added)
	Insulation	R	- EPR as per IEC 60092-360
	Cabling		- Insulated cores shall be cabled - Flame retardant & non-hygroscopic fillers may be used - Suitable tape(s) may be applied on the cabled core - A Filler may be applied to obtain a circular Cable
	Inner covering	F	- Flame retardant halogen free thermoset compound
	Armor	O (B,C)	- Braid of tinned copper wire (O) - Option : Bronze wire braid (B) /galvanized steel wire braid (C) - A suitable separator tape(s) may be applied under/over the armor
	Sheath	U	- SHF2 as per IEC 60092-360 - Option : NEK-606 (Category a, b, c, d) / Mud or oil resistant - Outer sheath color : black
	Core identification		

No. of cores	Without Earth core	With Earth core
1C	Off-white or Black	-
2C	Off-white, Black	-
3C / 2C + E	Off-white, Black, Red	Off-white, Black, G/Y
4C / 3C + E	Off-white, Black, Red, Blue	Off-white, Black, Red, G/Y
5C / 4C + E	Black No. on white insulation	Off-white, Black, Red, Blue, G/Y
6C and over	Black No. on white insulation	Black No. on white insulation, G/Y

Note. Earth core(G/Y) : Yellow/Green(Green base color with yellow stripe)

LV Power & Lighting Cable

0.6/1kV RFOU, 0.6/1kV RFBU / Class2 Conductor

No. of Cores	Conductor			Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Conductor Resistance (at 20℃) (Max.)	Insulation Resistance (at 20℃) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.						Nominal	Toler-ance				
No.	mm^2	EA	mm	mm	mm	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
1	1.5	7	1.7	1.0	1.0	5.6	0.3	1.1	9.3	0.7	12.2	1,320	3,500	150
	2.5	7	2.2	1.0	1.0	6.0	0.3	1.1	9.7	0.7	7.56	1,110	3,500	170
	4	7	2.7	1.0	1.0	6.5	0.3	1.1	10.2	0.7	4.70	940	3,500	200
	6	7	3.3	1.0	1.0	7.1	0.3	1.1	10.8	0.7	3.110	800	3,500	230
	10	7	4.2	1.0	1.0	8.0	0.3	1.2	11.9	0.8	1.840	650	3,500	290
	16	7	5.3	1.0	1.0	9.0	0.3	1.2	12.9	0.8	1.160	540	3,500	370
	25	7	6.6	1.2	1.0	10.7	0.3	1.3	14.8	0.9	0.734	520	3,500	520
	35	7	7.9	1.2	1.0	11.8	0.3	1.3	15.9	0.9	0.529	450	3,500	630
	50	19	9.1	1.4	1.0	13.6	0.3	1.4	17.9	1.0	0.391	440	3,500	810
	70	19	11.0	1.4	1.0	15.3	0.3	1.5	19.8	1.1	0.270	380	3,500	1,060
	95	19	12.9	1.6	1.0	17.6	0.3	1.6	22.3	1.2	0.195	370	3,500	1,380
	120	37	14.5	1.6	1.0	19.1	0.3	1.6	23.8	1.3	0.154	330	3,500	1,650
	150	37	16.2	1.8	1.0	21.0	0.3	1.7	25.9	1.3	0.126	330	3,500	1,970
	185	37	18.0	2.0	1.0	23.5	0.3	1.8	28.6	1.4	0.100	330	3,500	2,430
	240	61	20.6	2.2	1.0	26.5	0.3	1.9	31.8	1.6	0.0762	320	3,500	3,090
	300	61	23.1	2.4	1.2	30.1	0.4	2.1	36.2	1.7	0.0607	310	3,500	3,940
	400	61	26.1	2.6	1.2	34.2	0.4	2.2	40.5	1.9	0.0475	290	3,500	5,180
	500	61	29.2	2.8	1.2	37.3	0.4	2.4	44.0	2.1	0.0369	280	3,500	6,190
	630	91	33.2	2.8	1.4	41.9	0.4	2.5	48.8	2.3	0.0286	250	3,500	7,860

0.6/1kV RFOU, 0.6/1kV RFCU, 0.6/1kV RFBU / Class2 Conductor

2	1.5	7	1.7	1.0	1.0	9.2	0.3	1.2	13.1	0.8	12.2	1,320	3,500	290
	2.5	7	2.2	1.0	1.0	10.0	0.3	1.3	14.1	0.9	7.56	1,110	3,500	340
	4	7	2.7	1.0	1.0	11.0	0.3	1.3	15.1	0.9	4.70	940	3,500	400
	6	7	3.3	1.0	1.0	12.2	0.3	1.3	16.3	1.0	3.110	800	3,500	480
	10	7	4.2	1.0	1.0	14.0	0.3	1.4	18.3	1.0	1.840	650	3,500	610
	16	7	5.3	1.0	1.0	16.0	0.3	1.5	20.5	1.1	1.160	540	3,500	790
	25	7	6.6	1.2	1.0	19.4	0.3	1.6	24.1	1.3	0.734	520	3,500	1,120
	35	7	7.9	1.2	1.0	21.6	0.3	1.7	26.5	1.4	0.529	450	3,500	1,390
	50	19	9.1	1.4	1.0	25.2	0.3	1.9	30.5	1.5	0.391	440	3,500	1,820
	70	19	11.0	1.4	1.2	29.4	0.3	2.0	34.9	1.7	0.270	380	3,500	2,450
	95	19	12.9	1.6	1.2	34.0	0.4	2.2	40.3	1.9	0.195	370	3,500	3,320
	120	37	14.5	1.6	1.2	37.0	0.4	2.3	43.5	2.0	0.154	330	3,500	3,950
	150	37	16.2	1.8	1.4	41.2	0.4	2.5	48.1	2.2	0.126	330	3,500	4,800
	185	37	18.0	2.0	1.4	46.2	0.4	2.7	53.5	2.4	0.100	330	3,500	5,910
	240	61	20.6	2.2	1.6	52.8	0.4	3.0	60.7	2.7	0.0762	320	3,500	7,630
	300	61	23.1	2.4	1.6	58.4	0.4	3.2	66.7	3.0	0.0607	310	3,500	9,260
2C+E	1.5	7	1.7	1.0	1.0	9.8	0.3	1.2	13.7	0.8	12.2	1,320	3,500	320
2C+E	2.5	7	2.2	1.0	1.0	10.6	0.3	1.3	14.7	0.9	7.56	1,110	3,500	380
2C+E	4	7	2.7	1.0	1.0	11.7	0.3	1.3	15.8	0.9	4.70	940	3,500	460
2C+E	6	7	3.3	1.0	1.0	13.0	0.3	1.4	17.3	1.0	3.110	800	3,500	570
2C+E	10	7	4.2	1.0	1.0	14.9	0.3	1.4	19.2	1.1	1.840	650	3,500	730
2C+E	16	7	5.3	1.0	1.0	17.1	0.3	1.5	21.6	1.2	1.160	540	3,500	980
2C	25	7	6.6	1.2	1.0	20.1	0.3	1.7	25.0	1.3	0.734	520	3,500	1,300
Earth	16	7	5.3	1.0							1.160			
2C	35	7	7.9	1.2	1.0	22.7	0.3	1.8	27.8	1.4	0.529	450	3,500	1,690
Earth	25	7	6.6	1.2							0.734			
2C	50	19	9.1	1.4	1.0	25.9	0.3	1.9	31.2	1.5	0.391	440	3,500	2,090
Earth	25	7	6.6	1.2							0.734			
2C	70	19	11.0	1.4	1.2	30.2	0.4	2.1	36.3	1.8	0.270	380	3,500	2,920
Earth	35	7	7.9	1.2							0.529			
2C	95	19	12.9	1.6	1.2	34.9	0.4	2.3	41.4	2.0	0.195	370	3,500	3,830
Earth	50	19	9.1	1.4							0.391			
2C	120	37	14.5	1.6	1.4	38.6	0.4	2.4	45.3	2.1	0.154	330	3,500	4,730
Earth	70	19	11.0	1.4							0.270			
2C	150	37	16.2	1.8	1.4	42.9	0.4	2.6	50.0	2.3	0.126	330	3,500	5,790
Earth	95	19	12.9	1.6							0.195			
2C	185	37	18.0	2.0	1.4	47.3	0.4	2.8	54.8	2.5	0.100	330	3,500	6,870
Earth	95	19	12.9	1.6							0.195			
2C	240	61	20.6	2.2	1.6	53.8	0.4	3.0	61.7	2.8	0.0762	320	3,500	8,760
Earth	120	37	14.5	1.6							0.154			

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV RFOU, 0.6/1kV RFCU, 0.6/1kV RFBU / Class2 Conductor

No. of Cores	Conductor			Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Conductor Resistance (at 20℃) (Max.)	Insulation Resistance (at 20℃) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.						Nominal	Toler-ance				
No.	mm^2	EA	mm	mm	mm	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
3	1.5	7	1.7	1.0	1.0	9.8	0.3	1.2	13.7	0.8	12.2	1,320	3,500	320
	2.5	7	2.2	1.0	1.0	10.6	0.3	1.3	14.7	0.9	7.56	1,110	3,500	380
	4	7	2.7	1.0	1.0	11.7	0.3	1.3	15.8	0.9	4.70	940	3,500	460
	6	7	3.3	1.0	1.0	13.0	0.3	1.4	17.3	1.0	3.110	800	3,500	570
	10	7	4.2	1.0	1.0	14.9	0.3	1.4	19.2	1.1	1.840	650	3,500	730
	16	7	5.3	1.0	1.0	17.1	0.3	1.5	21.6	1.2	1.160	540	3,500	980
	25	7	6.6	1.2	1.0	20.7	0.3	1.7	25.6	1.3	0.734	520	3,500	1,420
	35	7	7.9	1.2	1.0	23.1	0.3	1.8	28.2	1.4	0.529	450	3,500	1,790
	50	19	9.1	1.4	1.0	27.0	0.3	1.9	32.3	1.6	0.391	440	3,500	2,340
	70	19	11.0	1.4	1.2	31.5	0.4	2.1	37.6	1.8	0.270	380	3,500	3,290
	95	19	12.9	1.6	1.2	36.4	0.4	2.3	42.9	2.0	0.195	370	3,500	4,340
	120	37	14.5	1.6	1.4	40.1	0.4	2.5	47.0	2.2	0.154	330	3,500	5,290
	150	37	16.2	1.8	1.4	44.1	0.4	2.6	51.2	2.3	0.126	330	3,500	6,320
	185	37	18.0	2.0	1.6	50.1	0.4	2.9	57.8	2.6	0.100	330	3,500	7,960
	240	61	20.6	2.2	1.6	56.6	0.4	3.1	64.7	2.9	0.0762	320	3,500	10,120
	300	61	23.1	2.4	1.6	62.6	0.4	3.4	71.3	3.2	0.0607	310	3,500	12,380
3C+E	1.5	7	1.7	1.0	1.0	10.7	0.3	1.3	14.8	0.9	12.2	1,320	3,500	380
3C+E	2.5	7	2.2	1.0	1.0	11.7	0.3	1.3	15.8	0.9	7.56	1,110	3,500	450
3C+E	4	7	2.7	1.0	1.0	12.9	0.3	1.4	17.2	1.0	4.70	940	3,500	550
3C+E	6	7	3.3	1.0	1.0	14.3	0.3	1.4	18.6	1.0	3.110	800	3,500	680
3C+E	10	7	4.2	1.0	1.0	16.5	0.3	1.5	21.0	1.1	1.840	650	3,500	900
3C+E	16	7	5.3	1.0	1.0	18.9	0.3	1.6	23.6	1.2	1.160	540	3,500	1,210
3C	25	7	6.6	1.2	1.0	22.4	0.3	1.7	27.3	1.4	0.734	520	3,500	1,640
Earth	16	7	5.3	1.0							1.160			
3C	35	7	7.9	1.2	1.0	25.3	0.3	1.9	30.6	1.5	0.529	450	3,500	2,150
Earth	25	7	6.6	1.2							0.734			
3C	50	19	9.1	1.4	1.2	29.8	0.3	2.0	35.3	1.7	0.391	440	3,500	2,790
Earth	25	7	6.6	1.2							0.734			
3C	70	19	11.0	1.4	1.2	33.7	0.4	2.2	40.0	1.9	0.270	380	3,500	3,770
Earth	35	7	7.9	1.2							0.529			
3C	95	19	12.9	1.6	1.4	39.5	0.4	2.4	46.2	2.1	0.195	370	3,500	5,040
Earth	50	19	9.1	1.4							0.391			
3C	120	37	14.5	1.6	1.4	43.2	0.4	2.6	50.3	2.3	0.154	330	3,500	6,160
Earth	70	19	11.0	1.4							0.270			
3C	150	37	16.2	1.8	1.4	47.9	0.4	2.8	55.4	2.5	0.126	330	3,500	7,520
Earth	95	19	12.9	1.6							0.195			
3C	185	37	18.0	2.0	1.6	53.7	0.4	3.0	61.6	2.8	0.100	330	3,500	9,150
Earth	95	19	12.9	1.6							0.195			
3C	240	61	20.6	2.2	1.6	60.4	0.4	3.3	68.9	3.1	0.0762	320	3,500	11,610
Earth	120	37	14.5	1.6							0.154			
4	1.5	7	1.7	1.0	1.0	10.7	0.3	1.3	14.8	0.9	12.2	1,320	3,500	380
	2.5	7	2.2	1.0	1.0	11.7	0.3	1.3	15.8	0.9	7.56	1,110	3,500	450
	4	7	2.7	1.0	1.0	12.9	0.3	1.4	17.2	1.0	4.70	940	3,500	550
	6	7	3.3	1.0	1.0	14.3	0.3	1.4	18.6	1.0	3.110	800	3,500	680
	10	7	4.2	1.0	1.0	16.5	0.3	1.5	21.0	1.1	1.840	650	3,500	900
	16	7	5.3	1.0	1.0	18.9	0.3	1.6	23.6	1.2	1.160	540	3,500	1,210
	25	7	6.6	1.2	1.0	23.0	0.3	1.8	28.1	1.4	0.734	520	3,500	1,770
	35	7	7.9	1.2	1.0	25.7	0.3	1.9	31.0	1.5	0.529	450	3,500	2,250
	50	19	9.1	1.4	1.2	30.8	0.4	2.1	36.9	1.8	0.391	440	3,500	3,150
	70	19	11.0	1.4	1.2	34.9	0.4	2.3	41.4	2.0	0.270	380	3,500	4,160
	95	19	12.9	1.6	1.4	40.9	0.4	2.5	47.8	2.2	0.195	370	3,500	5,580
	120	37	14.5	1.6	1.4	44.5	0.4	2.6	51.6	2.4	0.154	330	3,500	6,700
	150	37	16.2	1.8	1.6	49.7	0.4	2.9	57.4	2.6	0.126	330	3,500	8,200
	185	37	18.0	2.0	1.6	55.7	0.4	3.1	63.8	2.9	0.100	330	3,500	10,140
	240	61	20.6	2.2	1.6	62.9	0.4	3.4	71.6	3.2	0.0762	320	3,500	12,960
	300	61	23.1	2.4	1.8	70.1	0.4	3.7	79.4	3.5	0.0607	310	3,500	16,000

LV Power & Lighting Cable

0.6/1kV RFOU, 0.6/1kV RFCU, 0.6/1kV RFBU / Class2 Conductor

No. of Cores	Conductor			Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Conductor Resistance (at 20℃) (Max.)	Insulation Resistance (at 20℃) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.						Nominal	Toler-ance				
No.	mm^2	EA	mm	mm	mm	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
4C+E	1.5	7	1.7	1.0	1.0	11.7	0.3	1.3	15.8	0.9	12.2	1,320	3,500	430
4C+E	2.5	7	2.2	1.0	1.0	12.8	0.3	1.4	17.1	1.0	7.56	1,110	3,500	520
4C+E	4	7	2.7	1.0	1.0	14.2	0.3	1.4	18.5	1.0	4.70	940	3,500	640
4C+E	6	7	3.3	1.0	1.0	15.8	0.3	1.5	20.3	1.1	3.110	800	3,500	810
4C+E	10	7	4.2	1.0	1.0	18.2	0.3	1.6	22.9	1.2	1.840	650	3,500	1,070
4C+E	16	7	5.3	1.0	1.0	20.9	0.3	1.7	25.8	1.3	1.160	540	3,500	1,450
4C	25	7	6.6	1.2	1.0	25.0	0.3	1.9	30.3	1.5	0.734	520	3,500	2,030
Earth	16	7	5.3	1.0							1.160			
4C	35	7	7.9	1.2	1.2	28.9	0.3	2.0	34.4	1.7	0.529	450	3,500	2,720
Earth	25	7	6.6	1.2							0.734			
4C	50	19	9.1	1.4	1.2	33.2	0.4	2.2	39.5	1.9	0.391	440	3,500	3,550
Earth	25	7	6.6	1.2							0.734			
4C	70	19	11.0	1.4	1.2	37.6	0.4	2.4	44.3	2.1	0.270	380	3,500	4,680
Earth	35	7	7.9	1.2							0.529			
4C	95	19	12.9	1.6	1.4	44.0	0.4	2.6	51.1	2.3	0.195	370	3,500	6,270
Earth	50	19	9.1	1.4							0.391			
4C	120	37	14.5	1.6	1.4	48.1	0.4	2.8	55.6	2.5	0.154	330	3,500	7,660
Earth	70	19	11.0	1.4							0.270			
4C	150	37	16.2	1.8	1.6	54.0	0.4	3.0	61.9	2.8	0.126	330	3,500	9,460
Earth	95	19	12.9	1.6							0.195			
4C	185	37	18.0	2.0	1.6	59.9	0.4	3.3	68.4	3.0	0.100	330	3,500	11,460
Earth	95	19	12.9	1.6							0.195			
4C	240	61	20.6	2.2	1.8	67.9	0.4	3.6	77.0	3.4	0.0762	320	3,500	14,670
Earth	120	37	14.5	1.6							0.154			
	1.5	7	1.7	1.0	1.0	11.7	0.3	1.3	15.8	0.9	12.2	1,320	3,500	430
	2.5	7	2.2	1.0	1.0	12.8	0.3	1.4	17.1	1.0	7.56	1,110	3,500	520
	4	7	2.7	1.0	1.0	14.2	0.3	1.4	18.5	1.0	4.70	940	3,500	640
	6	7	3.3	1.0	1.0	15.8	0.3	1.5	20.3	1.1	3.110	800	3,500	810
	10	7	4.2	1.0	1.0	18.2	0.3	1.6	22.9	1.2	1.840	650	3,500	1,070
	16	7	5.3	1.0	1.0	20.9	0.3	1.7	25.8	1.3	1.160	540	3,500	1,450
	25	7	6.6	1.2	1.0	25.5	0.3	1.9	30.8	1.5	0.734	520	3,500	2,140
5	35	7	7.9	1.2	1.2	29.3	0.3	2.0	34.8	1.7	0.529	450	3,500	2,820
	50	19	9.1	1.4	1.2	34.1	0.4	2.2	40.4	1.9	0.391	440	3,500	3,810
	70	19	11.0	1.4	1.4	39.1	0.4	2.4	45.8	2.1	0.270	380	3,500	5,110
	95	19	12.9	1.6	1.4	45.3	0.4	2.7	52.6	2.4	0.195	370	3,500	6,810
	120	37	14.5	1.6	1.6	50.0	0.4	2.9	57.7	2.6	0.154	330	3,500	8,340
	150	37	16.2	1.8	1.6	55.1	0.4	3.1	63.2	2.8	0.126	330	3,500	10,030
	185	37	18.0	2.0	1.6	61.9	0.4	3.3	70.4	3.1	0.100	330	3,500	12,440
	240	61	20.6	2.2	1.8	70.4	0.4	3.7	79.7	3.5	0.0762	320	3,500	16,060

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV RFOU, 0.6/1kV RFCU, 0.6/1kV RFBU / Class2 Conductor

No. of Cores	Conductor			Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Conductor Resistance (at 20℃) (Max.)	Insulation Resistance (at 20℃) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.						Nominal	Tolerance				
No.	mm^2	EA	mm	mm	mm	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
2	1.0	7	1.4	1.0	1.0	8.6	0.3	1.2	12.5	0.8	18.2	1,490	3,500	250
5	1.0	7	1.4	1.0	1.0	10.9	0.3	1.3	15.0	0.9	18.2	1,490	3,500	360
7	1.0	7	1.4	1.0	1.0	11.9	0.3	1.3	16.0	0.9	18.2	1,490	3,500	430
8	1.0	7	1.4	1.0	1.0	12.9	0.3	1.4	17.2	1.0	18.2	1,490	3,500	480
9	1.0	7	1.4	1.0	1.0	13.9	0.3	1.4	18.2	1.0	18.2	1,490	3,500	520
10	1.0	7	1.4	1.0	1.0	15.2	0.3	1.5	19.7	1.1	18.2	1,490	3,500	580
12	1.0	7	1.4	1.0	1.0	15.7	0.3	1.5	20.2	1.1	18.2	1,490	3,500	630
14	1.0	7	1.4	1.0	1.0	16.6	0.3	1.5	21.1	1.1	18.2	1,490	3,500	690
16	1.0	7	1.4	1.0	1.0	17.5	0.3	1.6	22.2	1.2	18.2	1,490	3,500	770
19	1.0	7	1.4	1.0	1.0	18.5	0.3	1.6	23.2	1.2	18.2	1,490	3,500	850
24	1.0	7	1.4	1.0	1.0	21.8	0.3	1.7	26.7	1.4	18.2	1,490	3,500	1,040
27	1.0	7	1.4	1.0	1.0	22.3	0.3	1.7	27.2	1.4	18.2	1,490	3,500	1,120
30	1.0	7	1.4	1.0	1.0	23.2	0.3	1.8	28.3	1.4	18.2	1,490	3,500	1,220
37	1.0	7	1.4	1.0	1.0	25.1	0.3	1.9	30.4	1.5	18.2	1,490	3,500	1,420
44	1.0	7	1.4	1.0	1.2	29.2	0.3	2.0	34.7	1.7	18.2	1,490	3,500	1,750
2	1.5	7	1.7	1.0	1.0	9.2	0.3	1.2	13.1	0.8	12.2	1,320	3,500	290
5	1.5	7	1.7	1.0	1.0	11.7	0.3	1.3	15.8	0.9	12.2	1,320	3,500	430
7	1.5	7	1.7	1.0	1.0	12.8	0.3	1.4	17.1	1.0	12.2	1,320	3,500	500
8	1.5	7	1.7	1.0	1.0	13.9	0.3	1.4	18.2	1.0	12.2	1,320	3,500	550
9	1.5	7	1.7	1.0	1.0	15.0	0.3	1.5	19.5	1.1	12.2	1,320	3,500	610
10	1.5	7	1.7	1.0	1.0	16.4	0.3	1.5	20.9	1.1	12.2	1,320	3,500	670
12	1.5	7	1.7	1.0	1.0	17.0	0.3	1.5	21.5	1.2	12.2	1,320	3,500	730
14	1.5	7	1.7	1.0	1.0	17.9	0.3	1.6	22.6	1.2	12.2	1,320	3,500	820
16	1.5	7	1.7	1.0	1.0	18.9	0.3	1.6	23.6	1.2	12.2	1,320	3,500	900
19	1.5	7	1.7	1.0	1.0	20.0	0.3	1.7	24.9	1.3	12.2	1,320	3,500	1,010
24	1.5	7	1.7	1.0	1.0	23.6	0.3	1.8	28.7	1.4	12.2	1,320	3,500	1,250
27	1.5	7	1.7	1.0	1.0	24.2	0.3	1.8	29.3	1.5	12.2	1,320	3,500	1,340
30	1.5	7	1.7	1.0	1.0	25.1	0.3	1.9	30.4	1.5	12.2	1,320	3,500	1,460
37	1.5	7	1.7	1.0	1.2	28.0	0.3	2.0	33.5	1.6	12.2	1,320	3,500	1,800
44	1.5	7	1.7	1.0	1.2	31.6	0.4	2.1	37.7	1.8	12.2	1,320	3,500	2,190
2	2.5	7	2.2	1.0	1.0	10.0	0.3	1.3	14.1	0.9	7.56	1,110	3,500	340
5	2.5	7	2.2	1.0	1.0	12.8	0.3	1.4	17.1	1.0	7.56	1,110	3,500	520
7	2.5	7	2.2	1.0	1.0	14.0	0.3	1.4	18.3	1.0	7.56	1,110	3,500	600
8	2.5	7	2.2	1.0	1.0	15.2	0.3	1.5	19.7	1.1	7.56	1,110	3,500	670
9	2.5	7	2.2	1.0	1.0	16.5	0.3	1.5	21.0	1.1	7.56	1,110	3,500	740
10	2.5	7	2.2	1.0	1.0	18.0	0.3	1.6	22.7	1.2	7.56	1,110	3,500	820
12	2.5	7	2.2	1.0	1.0	18.6	0.3	1.6	23.3	1.2	7.56	1,110	3,500	910
14	2.5	7	2.2	1.0	1.0	19.7	0.3	1.6	24.4	1.3	7.56	1,110	3,500	1,010
16	2.5	7	2.2	1.0	1.0	20.8	0.3	1.7	25.7	1.3	7.56	1,110	3,500	1,120
19	2.5	7	2.2	1.0	1.0	22.0	0.3	1.7	26.9	1.4	7.56	1,110	3,500	1,260
24	2.5	7	2.2	1.0	1.0	26.0	0.3	1.9	31.3	1.6	7.56	1,110	3,500	1,570
27	2.5	7	2.2	1.0	1.0	26.6	0.3	1.9	31.9	1.6	7.56	1,110	3,500	1,700
30	2.5	7	2.2	1.0	1.2	28.5	0.3	2.0	34.0	1.7	7.56	1,110	3,500	1,940
37	2.5	7	2.2	1.0	1.2	30.8	0.4	2.1	36.9	1.8	7.56	1,110	3,500	2,370
44	2.5	7	2.2	1.0	1.2	34.8	0.4	2.3	41.3	2.0	7.56	1,110	3,500	2,790
2	4	7	2.7	1.0	1.0	11.0	0.3	1.3	15.1	0.9	4.70	940	3,500	400
5	4	7	2.7	1.0	1.0	14.2	0.3	1.4	18.5	1.0	4.70	940	3,500	640
7	4	7	2.7	1.0	1.0	15.5	0.3	1.5	20.0	1.1	4.70	940	3,500	750
8	4	7	2.7	1.0	1.0	16.9	0.3	1.5	21.4	1.2	4.70	940	3,500	830
9	4	7	2.7	1.0	1.0	18.3	0.3	1.6	23.0	1.2	4.70	940	3,500	930
10	4	7	2.7	1.0	1.0	20.0	0.3	1.7	24.9	1.3	4.70	940	3,500	1,040
12	4	7	2.7	1.0	1.0	20.7	0.3	1.7	25.6	1.3	4.70	940	3,500	1,160
14	4	7	2.7	1.0	1.0	21.9	0.3	1.7	26.8	1.4	4.70	940	3,500	1,290
16	4	7	2.7	1.0	1.0	23.2	0.3	1.8	28.3	1.4	4.70	940	3,500	1,440
19	4	7	2.7	1.0	1.0	24.5	0.3	1.8	29.6	1.5	4.70	940	3,500	1,630
24	4	7	2.7	1.0	1.2	29.8	0.3	2.0	35.3	1.7	4.70	940	3,500	2,130
27	4	7	2.7	1.0	1.2	30.5	0.4	2.1	36.6	1.8	4.70	940	3,500	2,410
30	4	7	2.7	1.0	1.2	31.7	0.4	2.1	37.8	1.8	4.70	940	3,500	2,600
37	4	7	2.7	1.0	1.2	34.3	0.4	2.2	40.6	1.9	4.70	940	3,500	3,070
44	4	7	2.7	1.0	1.4	39.2	0.4	2.4	45.9	2.1	4.70	940	3,500	3,680

LV Power & Lighting Cable

0.6/1kV FX-RFOU, 0.6/1kV FX-RFBU / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
1	1.5	1.8	1.0	1.0	5.6	0.3	1.1	9.3	0.7	150
	2.5	2.4	1.0	1.0	6.1	0.3	1.1	9.8	0.7	180
	4	3.0	1.0	1.0	6.6	0.3	1.1	10.3	0.7	200
	6	3.9	1.0	1.0	7.2	0.3	1.1	10.9	0.7	230
	10	5.1	1.0	1.0	8.1	0.3	1.2	12.0	0.8	310
	16	6.3	1.0	1.0	9.7	0.3	1.2	13.6	0.8	400
	25	7.8	1.2	1.0	11.5	0.3	1.3	15.6	0.9	540
	35	9.2	1.2	1.0	12.7	0.3	1.4	17.0	1.0	670
	50	11.0	1.4	1.0	14.8	0.3	1.4	19.1	1.1	880
	70	13.1	1.4	1.0	16.7	0.3	1.5	21.2	1.1	1,130
	95	15.1	1.6	1.0	18.8	0.3	1.6	23.5	1.2	1,420
	120	17.0	1.6	1.0	20.6	0.3	1.7	25.5	1.3	1,720
	150	19.0	1.8	1.0	22.8	0.3	1.7	27.7	1.4	2,070
	185	21.0	2.0	1.0	24.7	0.3	1.8	29.8	1.5	2,460
	240	24.0	2.2	1.2	28.6	0.3	2.0	34.1	1.7	3,220
	300	27.0	2.4	1.2	31.5	0.4	2.1	37.6	1.8	4,040

0.6/1kV FX-RFOU, 0.6/1kV FX-RFCU, 0.6/1kV FX-RFBU / Class5 Conductor

2	1.5	1.8	1.0	1.0	9.2	0.3	1.2	13.1	0.8	290
	2.5	2.4	1.0	1.0	10.2	0.3	1.3	14.3	0.9	350
	4	3.0	1.0	1.0	11.2	0.3	1.3	15.3	0.9	410
	6	3.9	1.0	1.0	12.4	0.3	1.3	16.5	1.0	490
	10	5.1	1.0	1.0	14.2	0.3	1.4	18.5	1.0	600
	16	6.3	1.0	1.0	17.4	0.3	1.5	21.9	1.2	840
	25	7.8	1.2	1.0	21.0	0.3	1.7	25.9	1.3	1,180
	35	9.2	1.2	1.0	23.4	0.3	1.8	28.5	1.4	1,470
	50	11.0	1.4	1.0	27.6	0.3	1.9	32.9	1.6	1,980
	70	13.1	1.4	1.2	32.2	0.4	2.1	38.3	1.8	2,790
	95	15.1	1.6	1.2	36.4	0.4	2.3	42.9	2.0	3,520
	120	17.0	1.6	1.4	40.4	0.4	2.5	47.3	2.2	4,350
	150	19.0	1.8	1.4	44.8	0.4	2.6	51.9	2.4	5,270
	185	21.0	2.0	1.4	48.6	0.4	2.8	56.1	2.5	6,240
	240	24.0	2.2	1.6	55.4	0.4	3.1	63.5	2.8	8,120
	300	27.0	2.4	1.6	61.2	0.4	3.3	69.7	3.1	9,960
2C+E	1.5	1.8	1.0	1.0	9.8	0.3	1.2	13.7	0.8	320
2C+E	2.5	2.4	1.0	1.0	10.8	0.3	1.3	14.9	0.9	390
2C+E	4	3.0	1.0	1.0	11.9	0.3	1.3	16.0	0.9	470
2C+E	6	3.9	1.0	1.0	13.2	0.3	1.4	17.5	1.0	580
2C+E	10	5.1	1.0	1.0	15.1	0.3	1.5	19.6	1.1	740
2C+E	16	6.3	1.0	1.0	18.6	0.3	1.6	23.3	1.2	1,050
2C	25	7.8	1.2	1.0	21.8	0.3	1.7	26.7	1.4	1,360
Earth	16	6.3	1.0							
2C	35	9.2	1.2	1.0	24.6	0.3	1.8	29.7	1.5	1,750
Earth	25	7.8	1.2							
2C	50	11.0	1.4	1.2	29.1	0.3	2.0	34.6	1.7	2,360
Earth	25	7.8	1.2							
2C	70	13.1	1.4	1.2	32.9	0.4	2.2	39.2	1.9	3,160
Earth	35	9.2	1.2							
2C	95	15.1	1.6	1.2	37.5	0.4	2.3	44.0	2.1	4,040
Earth	50	11.0	1.4							
2C	120	17.0	1.6	1.4	41.8	0.4	2.5	48.7	2.2	5,080
Earth	70	13.1	1.4							
2C	150	19.0	1.8	1.4	46.5	0.4	2.7	53.8	2.5	6,250
Earth	95	15.1	1.6							
2C	185	21.0	2.0	1.6	50.5	0.4	2.9	58.2	2.6	7,350
Earth	95	15.1	1.6							
2C	240	24.0	2.2	1.6	56.6	0.4	3.1	64.7	2.9	9,260
Earth	120	17.0	1.6							

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV FX-RFOU, 0.6/1kV FX-RFCU, 0.6/1kV FX-RFBU / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
3	1.5	1.8	1.0	1.0	9.8	0.3	1.2	13.7	0.8	320
	2.5	2.4	1.0	1.0	10.8	0.3	1.3	14.9	0.9	390
	4	3.0	1.0	1.0	11.9	0.3	1.3	16.0	0.9	470
	6	3.9	1.0	1.0	13.2	0.3	1.4	17.5	1.0	580
	10	5.1	1.0	1.0	15.1	0.3	1.5	19.6	1.1	740
	16	6.3	1.0	1.0	18.6	0.3	1.6	23.3	1.2	1,050
	25	7.8	1.2	1.0	22.5	0.3	1.8	27.6	1.4	1,490
	35	9.2	1.2	1.0	25.1	0.3	1.9	30.4	1.5	1,870
	50	11.0	1.4	1.2	30.4	0.4	2.1	36.5	1.8	2,760
	70	13.1	1.4	1.2	34.5	0.4	2.2	40.8	1.9	3,590
	95	15.1	1.6	1.4	39.4	0.4	2.4	46.1	2.1	4,620
	120	17.0	1.6	1.4	43.3	0.4	2.6	50.4	2.3	5,640
	150	19.0	1.8	1.4	48.0	0.4	2.8	55.5	2.5	6,890
	185	21.0	2.0	1.6	52.7	0.4	2.9	60.4	2.7	8,330
	240	24.0	2.2	1.6	59.4	0.4	3.2	67.7	3.0	10,640
	300	27.0	2.4	1.8	66.0	0.4	3.5	74.9	3.3	13,320
3C+E	1.5	1.8	1.0	1.0	10.7	0.3	1.3	14.8	0.9	370
3C+E	2.5	2.4	1.0	1.0	11.9	0.3	1.3	16.0	0.9	450
3C+E	4	3.0	1.0	1.0	13.1	0.3	1.4	17.4	1.0	560
3C+E	6	3.9	1.0	1.0	14.6	0.3	1.4	18.9	1.1	690
3C+E	10	5.1	1.0	1.0	16.7	0.3	1.5	21.2	1.1	900
3C+E	16	6.3	1.0	1.0	20.6	0.3	1.7	25.5	1.3	1,290
3C	25	7.8	1.2	1.0	24.3	0.3	1.8	29.4	1.5	1,720
Earth	16	6.3	1.0							
3C	35	9.2	1.2	1.2	28.2	0.3	2.0	33.7	1.6	2,330
Earth	25	7.8	1.2							
3C	50	11.0	1.4	1.2	32.5	0.4	2.1	38.6	1.8	3,120
Earth	25	7.8	1.2							
3C	70	13.1	1.4	1.2	36.9	0.4	2.3	43.4	2.0	4,080
Earth	35	9.2	1.2							
3C	95	15.1	1.6	1.4	42.4	0.4	2.6	49.5	2.3	5,360
Earth	50	11.0	1.4							
3C	120	17.0	1.6	1.4	46.8	0.4	2.7	54.1	2.5	6,590
Earth	70	13.1	1.4							
3C	150	19.0	1.8	1.6	52.6	0.4	2.9	60.3	2.7	8,280
Earth	95	15.1	1.6							
3C	185	21.0	2.0	1.6	56.5	0.4	3.1	64.6	2.9	9,600
Earth	95	15.1	1.6							
3C	240	24.0	2.2	1.6	63.5	0.4	3.4	72.2	3.2	12,210
Earth	120	17.0	1.6							

LV Power & Lighting Cable

0.6/1kV FX-RFOU, 0.6/1kV FX-RFCU, 0.6/1kV FX-RFBU / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
4	1.5	1.8	1.0	1.0	10.7	0.3	1.3	14.8	0.9	380
	2.5	2.4	1.0	1.0	11.9	0.3	1.3	16.0	0.9	450
	4	3.0	1.0	1.0	13.1	0.3	1.4	17.4	1.0	560
	6	3.9	1.0	1.0	14.6	0.3	1.4	18.9	1.1	690
	10	5.1	1.0	1.0	16.7	0.3	1.5	21.2	1.1	900
	16	6.3	1.0	1.0	20.6	0.3	1.7	25.5	1.3	1,290
	25	7.8	1.2	1.0	24.9	0.3	1.8	30.0	1.5	1,830
	35	9.2	1.2	1.2	28.6	0.3	2.0	34.1	1.7	2,440
	50	11.0	1.4	1.2	33.7	0.4	2.2	40.0	1.9	3,450
	70	13.1	1.4	1.2	38.3	0.4	2.4	45.0	2.1	4,530
	95	15.1	1.6	1.4	43.8	0.4	2.6	50.9	2.3	5,850
	120	17.0	1.6	1.4	48.1	0.4	2.8	55.6	2.5	7,150
	150	19.0	1.8	1.6	54.0	0.4	3.0	61.9	2.8	8,930
	185	21.0	2.0	1.6	58.6	0.4	3.2	66.9	3.0	10,630
	240	24.0	2.2	1.8	66.5	0.4	3.5	75.4	3.3	13,770
	300	27.0	2.4	1.8	73.5	0.4	3.8	83.0	3.6	17,050
4C+E	1.5	1.8	1.0	1.0	11.7	0.3	1.3	15.8	0.9	430
4C+E	2.5	2.4	1.0	1.0	13.1	0.3	1.4	17.4	1.0	530
4C+E	4	3.0	1.0	1.0	14.4	0.3	1.4	18.7	1.0	650
4C+E	6	3.9	1.0	1.0	16.0	0.3	1.5	20.5	1.1	810
4C+E	10	5.1	1.0	1.0	18.5	0.3	1.6	23.2	1.2	1,080
4C+E	16	6.3	1.0	1.0	22.8	0.3	1.7	27.7	1.4	1,540
4C	25	7.8	1.2	1.0	27.1	0.3	1.9	32.4	1.6	2,100
Earth	16	6.3	1.0							
4C	35	9.2	1.2	1.2	31.3	0.4	2.1	37.4	1.8	2,930
Earth	25	7.8	1.2							
4C	50	11.0	1.4	1.2	36.3	0.4	2.3	42.8	2.0	3,870
Earth	25	7.8	1.2							
4C	70	13.1	1.4	1.4	41.5	0.4	2.5	48.4	2.2	5,160
Earth	35	9.2	1.2							
4C	95	15.1	1.6	1.4	47.2	0.4	2.7	54.5	2.5	6,620
Earth	50	11.0	1.4							
4C	120	17.0	1.6	1.6	52.7	0.4	3.0	60.6	2.7	8,390
Earth	70	13.1	1.4							
4C	150	19.0	1.8	1.6	58.6	0.4	3.2	66.9	3.0	10,310
Earth	95	15.1	1.6							
4C	185	21.0	2.0	1.6	63.1	0.4	3.4	71.8	3.2	12,030
Earth	95	15.1	1.6							
4C	240	24.0	2.2	1.8	71.4	0.4	3.7	80.7	3.5	15,520
Earth	120	17.0	1.6							

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV FX-RFOU, 0.6/1kV FX-RFCU, 0.6/1kV FX-RFBU / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
5	1.0	1.5	1.0	1.0	10.9	0.3	1.3	15.0	0.9	370
7	1.0	1.5	1.0	1.0	11.9	0.3	1.3	16.0	0.9	430
9	1.0	1.5	1.0	1.0	13.9	0.3	1.4	18.2	1.0	540
12	1.0	1.5	1.0	1.0	15.7	0.3	1.5	20.2	1.1	660
14	1.0	1.5	1.0	1.0	16.6	0.3	1.5	21.1	1.1	720
16	1.0	1.5	1.0	1.0	17.5	0.3	1.6	22.2	1.2	800
19	1.0	1.5	1.0	1.0	18.5	0.3	1.6	23.2	1.2	890
24	1.0	1.5	1.0	1.0	21.8	0.3	1.7	26.7	1.4	1,120
27	1.0	1.5	1.0	1.0	22.3	0.3	1.7	27.2	1.4	1,190
30	1.0	1.5	1.0	1.0	23.2	0.3	1.8	28.3	1.4	1,290
37	1.0	1.5	1.0	1.0	25.1	0.3	1.9	30.4	1.5	1,510
44	1.0	1.5	1.0	1.2	29.2	0.3	2.0	34.7	1.7	1,910
5	1.5	1.8	1.0	1.0	11.7	0.3	1.3	15.8	0.9	420
7	1.5	1.8	1.0	1.0	12.8	0.3	1.4	17.1	1.0	500
9	1.5	1.8	1.0	1.0	15.0	0.3	1.5	19.5	1.1	630
12	1.5	1.8	1.0	1.0	17.0	0.3	1.5	21.5	1.2	770
14	1.5	1.8	1.0	1.0	17.9	0.3	1.6	22.6	1.2	850
16	1.5	1.8	1.0	1.0	18.9	0.3	1.6	23.6	1.2	930
19	1.5	1.8	1.0	1.0	20.0	0.3	1.7	24.9	1.3	1,050
24	1.5	1.8	1.0	1.0	23.6	0.3	1.8	28.7	1.4	1,330
27	1.5	1.8	1.0	1.0	24.2	0.3	1.8	29.3	1.5	1,420
30	1.5	1.8	1.0	1.0	25.1	0.3	1.9	30.4	1.5	1,540
37	1.5	1.8	1.0	1.2	28.0	0.3	2.0	33.5	1.6	1,900
44	1.5	1.8	1.0	1.2	31.6	0.4	2.1	37.7	1.8	2,370
5	2.5	2.4	1.0	1.0	13.1	0.3	1.4	17.4	1.0	520
7	2.5	2.4	1.0	1.0	14.3	0.3	1.4	18.6	1.0	620
9	2.5	2.4	1.0	1.0	16.8	0.3	1.5	21.3	1.2	780
12	2.5	2.4	1.0	1.0	19.0	0.3	1.6	23.7	1.2	970
14	2.5	2.4	1.0	1.0	20.1	0.3	1.7	25.0	1.3	1,090
16	2.5	2.4	1.0	1.0	21.3	0.3	1.7	26.2	1.3	1,200
19	2.5	2.4	1.0	1.0	22.5	0.3	1.8	27.6	1.4	1,360
24	2.5	2.4	1.0	1.0	26.6	0.3	1.9	31.9	1.6	1,730
27	2.5	2.4	1.0	1.2	28.0	0.3	2.0	33.5	1.6	1,960
30	2.5	2.4	1.0	1.2	29.1	0.3	2.0	34.6	1.7	2,110
37	2.5	2.4	1.0	1.2	31.5	0.4	2.1	37.6	1.8	2,570
44	2.5	2.4	1.0	1.2	35.6	0.4	2.3	42.1	2.0	3,100
5	4	3.0	1.0	1.0	14.4	0.3	1.4	18.7	1.0	640
7	4	3.0	1.0	1.0	15.8	0.3	1.5	20.3	1.1	780
9	4	3.0	1.0	1.0	18.6	0.3	1.6	23.3	1.2	990
12	4	3.0	1.0	1.0	21.1	0.3	1.7	26.0	1.3	1,240
14	4	3.0	1.0	1.0	22.3	0.3	1.7	27.2	1.4	1,390
16	4	3.0	1.0	1.0	23.6	0.3	1.8	28.7	1.4	1,550
19	4	3.0	1.0	1.0	25.0	0.3	1.9	30.3	1.5	1,760
24	4	3.0	1.0	1.2	30.4	0.4	2.1	36.5	1.8	2,460
27	4	3.0	1.0	1.2	31.1	0.4	2.1	37.2	1.8	2,630
30	4	3.0	1.0	1.2	32.3	0.4	2.2	38.6	1.8	2,860
37	4	3.0	1.0	1.2	35.0	0.4	2.3	41.5	2.0	3,370
44	4	3.0	1.0	1.4	40.0	0.4	2.5	46.9	2.2	4,140

LV Power & Lighting Cable

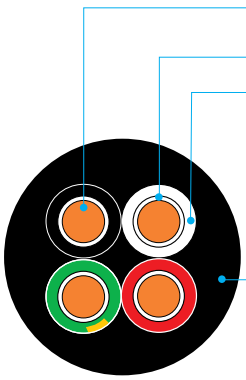
Cable Designation (P110)

0.6/1kV BU

Application Standard

- Design guide	: NEK-606 & IEC 60092-353
- Flame retardant	: IEC 60332-1 & IEC 60332-3 Category A
- Fire resistance	: IEC 60331-21(90min) & IEC 60331-1,-2(120min) Option : EN 50200(15min) / BS 8491(5min)
- Halogen content	: IEC 60754-1, 0.5% ↓
- Cold bend / impact	: CSA 22.2 No.03 (-40℃/-35℃)
- Mud / Oil resistant	: NEK-606 (Category a, b, c, d)
- Smoke light transmittance	: IEC 61034, 60% ↑
- Sunlight (UV) resistant	: UL 1581

Construction

Sectional view	Classification	Code	Construction detail
	Conductor	FX-	- Stranded tinned annealed copper wires as per IEC 60228, Class 2 - Option : Stranded tinned annealed copper wires as per IEC 60228, Class 5 (FX-added)
	Fire resisting layer	B	- Mica/glass tape
	Insulation		- EPR as per IEC 60092-360
	Cabling		- Insulated cores shall be cabled - Flame retardant & non-hygroscopic fillers may be used - Suitable tape(s) may be applied on the cabled core - A Filler may be applied to obtain a circular Cable
	Sheath	U	- SHF2 as per IEC 60092-360 - Option : NEK-606 (Category a, b, c, d) / Mud or oil resistant - Outer sheath color : black
	Core identification		

No. of cores	Without Earth core	With Earth core
1C	Off-white or Black	-
2C	Off-white, Black	-
3C / 2C + E	Off-white, Black, Red	Off-white, Black, G/Y
4C / 3C + E	Off-white, Black, Red, Blue	Off-white, Black, Red, G/Y
5C / 4C + E	Black No. on white insulation	Off-white, Black, Red, Blue, G/Y
6C and over	Black No. on white insulation	Black No. on white insulation, G/Y

Note. Earth core(G/Y) : Yellow/Green(Green base color with yellow stripe)

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV BU / Class2 Conductor

No. of Cores	Conductor			Thickness of Insulation	Thickness of sheath	Overall diameter		Conductor Resistance (at 20℃) (Max.)	Insulation Resistance (at 20℃) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.			Nominal	Toler-ance				
No.	mm^2	EA	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
1	1.5	7	1.7	1.0	1.0	6.3	0.6	12.2	1,320	3,500	60
	2.5	7	2.2	1.0	1.0	6.7	0.6	7.56	1,110	3,500	80
	4	7	2.7	1.0	1.0	7.2	0.6	4.70	940	3,500	100
	6	7	3.3	1.0	1.0	7.8	0.6	3.110	800	3,500	120
	10	7	4.2	1.0	1.1	8.9	0.7	1.840	650	3,500	170
	16	7	5.3	1.0	1.1	9.9	0.7	1.160	540	3,500	240
	25	7	6.6	1.2	1.2	11.8	0.8	0.734	520	3,500	350
	35	7	7.9	1.2	1.2	12.9	0.8	0.529	450	3,500	460
	50	19	9.1	1.4	1.3	14.9	0.9	0.391	440	3,500	610
	70	19	11.0	1.4	1.4	16.8	1.0	0.270	380	3,500	830
	95	19	12.9	1.6	1.4	19.1	1.1	0.195	370	3,500	1,110
	120	37	14.5	1.6	1.5	20.9	1.1	0.154	330	3,500	1,370
	150	37	16.2	1.8	1.6	22.9	1.2	0.126	330	3,500	1,660
	185	37	18.0	2.0	1.7	25.4	1.3	0.100	330	3,500	2,080
	240	61	20.6	2.2	1.8	28.6	1.4	0.0762	320	3,500	2,690
	300	61	23.1	2.4	1.9	31.8	1.6	0.0607	310	3,500	3,350
	400	61	26.1	2.6	2.1	36.4	1.8	0.0475	290	3,500	4,530
	500	61	29.2	2.8	2.2	39.7	1.9	0.0369	280	3,500	5,460
	630	91	33.2	2.8	2.4	44.3	2.1	0.0286	250	3,500	7,030
2	1.5	7	1.7	1.0	1.1	10.6	0.7	12.2	1,320	3,500	170
	2.5	7	2.2	1.0	1.2	11.6	0.8	7.56	1,110	3,500	210
	4	7	2.7	1.0	1.2	12.6	0.8	4.70	940	3,500	260
	6	7	3.3	1.0	1.2	13.8	0.9	3.110	800	3,500	330
	10	7	4.2	1.0	1.3	15.8	0.9	1.840	650	3,500	430
	16	7	5.3	1.0	1.4	18.0	1.0	1.160	540	3,500	590
	25	7	6.6	1.2	1.5	21.6	1.2	0.734	520	3,500	870
	35	7	7.9	1.2	1.6	24.0	1.3	0.529	450	3,500	1,120
	50	19	9.1	1.4	1.8	28.0	1.4	0.391	440	3,500	1,510
	70	19	11.0	1.4	1.9	31.8	1.6	0.270	380	3,500	2,050
	95	19	12.9	1.6	2.1	36.8	1.8	0.195	370	3,500	2,770
	120	37	14.5	1.6	2.2	40.2	1.9	0.154	330	3,500	3,370
	150	37	16.2	1.8	2.4	44.2	2.1	0.126	330	3,500	4,090
	185	37	18.0	2.0	2.5	49.0	2.3	0.100	330	3,500	5,070
	240	61	20.6	2.2	2.8	55.6	2.5	0.0762	320	3,500	6,580
	300	61	23.1	2.4	3.0	61.6	2.8	0.0607	310	3,500	8,130
2C+E	1.5	7	1.7	1.0	1.2	11.4	0.8	12.2	1,320	3,500	200
2C+E	2.5	7	2.2	1.0	1.2	12.3	0.8	7.56	1,110	3,500	250
2C+E	4	7	2.7	1.0	1.2	13.4	0.8	4.70	940	3,500	310
2C+E	6	7	3.3	1.0	1.3	14.9	0.9	3.110	800	3,500	410
2C+E	10	7	4.2	1.0	1.4	17.0	1.0	1.840	650	3,500	560
2C+E	16	7	5.3	1.0	1.4	19.2	1.1	1.160	540	3,500	770
2C	25	7	6.6	1.2	1.6	22.6	1.2	0.734	520	3,500	1,060
Earth	16	7	5.3	1.0				1.160			
2C	35	7	7.9	1.2	1.7	25.4	1.3	0.529	450	3,500	1,420
Earth	25	7	6.6	1.2				0.734			
2C	50	19	9.1	1.4	1.8	29.0	1.5	0.391	440	3,500	1,800
Earth	25	7	6.6	1.2				0.734			
2C	70	19	11.0	1.4	1.9	32.6	1.6	0.270	380	3,500	2,400
Earth	35	7	7.9	1.2				0.529			
2C	95	19	12.9	1.6	2.1	37.8	1.8	0.195	370	3,500	3,250
Earth	50	19	9.1	1.4				0.391			
2C	120	37	14.5	1.6	2.3	41.7	2.0	0.154	330	3,500	4,080
Earth	70	19	11.0	1.4				0.270			
2C	150	37	16.2	1.8	2.4	46.0	2.1	0.126	330	3,500	5,040
Earth	95	19	12.9	1.6				0.195			
2C	185	37	18.0	2.0	2.6	50.4	2.3	0.100	330	3,500	6,020
Earth	95	19	12.9	1.6				0.195			
2C	240	61	20.6	2.2	2.8	56.8	2.6	0.0762	320	3,500	7,720
Earth	120	37	14.5	1.6				0.154			

LV Power & Lighting Cable

0.6/1kV BU / Class2 Conductor

No. of Cores	Conductor			Thickness of Insulation	Thickness of sheath	Overall diameter		Conductor Resistance (at 20℃) (Max.)	Insulation Resistance (at 20℃) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.			Nominal	Toler-ance				
No.	mm²	EA	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
3	1.5	7	1.7	1.0	1.2	11.4	0.8	12.2	1,320	3,500	200
	2.5	7	2.2	1.0	1.2	12.3	0.8	7.56	1,110	3,500	250
	4	7	2.7	1.0	1.2	13.4	0.8	4.70	940	3,500	310
	6	7	3.3	1.0	1.3	14.9	0.9	3.110	800	3,500	410
	10	7	4.2	1.0	1.4	17.0	1.0	1.840	650	3,500	560
	16	7	5.3	1.0	1.4	19.2	1.1	1.160	540	3,500	770
	25	7	6.6	1.2	1.6	23.2	1.2	0.734	520	3,500	1,160
	35	7	7.9	1.2	1.7	25.8	1.3	0.529	450	3,500	1,510
	50	19	9.1	1.4	1.8	30.1	1.5	0.391	440	3,500	2,040
	70	19	11.0	1.4	2.0	34.1	1.7	0.270	380	3,500	2,770
	95	19	12.9	1.6	2.2	39.5	1.9	0.195	370	3,500	3,760
	120	37	14.5	1.6	2.3	43.1	2.0	0.154	330	3,500	4,600
	150	37	16.2	1.8	2.5	47.4	2.2	0.126	330	3,500	5,580
	185	37	18.0	2.0	2.7	52.8	2.4	0.100	330	3,500	6,970
	240	61	20.6	2.2	2.9	59.6	2.7	0.0762	320	3,500	9,010
	300	61	23.1	2.4	3.2	66.3	3.0	0.0607	310	3,500	11,190
3C+E	1.5	7	1.7	1.0	1.2	12.5	0.8	12.2	1,320	3,500	240
3C+E	2.5	7	2.2	1.0	1.2	13.5	0.8	7.56	1,110	3,500	300
3C+E	4	7	2.7	1.0	1.3	14.9	0.9	4.70	940	3,500	390
3C+E	6	7	3.3	1.0	1.3	16.3	1.0	3.110	800	3,500	500
3C+E	10	7	4.2	1.0	1.4	18.7	1.0	1.840	650	3,500	710
3C+E	16	7	5.3	1.0	1.5	21.3	1.2	1.160	540	3,500	990
3C	25	7	6.6	1.2	1.7	25.3	1.3	0.734	520	3,500	1,400
Earth	16	7	5.3	1.0				1.160			
3C	35	7	7.9	1.2	1.8	28.3	1.4	0.529	450	3,500	1,850
Earth	25	7	6.6	1.2				0.734			
3C	50	19	9.1	1.4	1.9	32.4	1.6	0.391	440	3,500	2,390
Earth	25	7	6.6	1.2				0.734			
3C	70	19	11.0	1.4	2.1	36.7	1.8	0.270	380	3,500	3,230
Earth	35	7	7.9	1.2				0.529			
3C	95	19	12.9	1.6	2.3	42.5	2.0	0.195	370	3,500	4,370
Earth	50	19	9.1	1.4				0.391			
3C	120	37	14.5	1.6	2.5	46.8	2.2	0.154	330	3,500	5,460
Earth	70	19	11.0	1.4				0.270			
3C	150	37	16.2	1.8	2.6	51.5	2.4	0.126	330	3,500	6,710
Earth	95	19	12.9	1.6				0.195			
3C	185	37	18.0	2.0	2.8	56.7	2.6	0.100	330	3,500	8,110
Earth	95	19	12.9	1.6				0.195			
3C	240	61	20.6	2.2	3.1	64.0	2.9	0.0762	320	3,500	10,460
Earth	120	37	14.5	1.6				0.154			
4	1.5	7	1.7	1.0	1.2	12.5	0.8	12.2	1,320	3,500	240
	2.5	7	2.2	1.0	1.2	13.5	0.8	7.56	1,110	3,500	300
	4	7	2.7	1.0	1.3	14.9	0.9	4.70	940	3,500	390
	6	7	3.3	1.0	1.3	16.3	1.0	3.110	800	3,500	500
	10	7	4.2	1.0	1.4	18.7	1.0	1.840	650	3,500	710
	16	7	5.3	1.0	1.5	21.3	1.2	1.160	540	3,500	990
	25	7	6.6	1.2	1.7	25.8	1.3	0.734	520	3,500	1,500
	35	7	7.9	1.2	1.8	28.7	1.4	0.529	450	3,500	1,950
	50	19	9.1	1.4	2.0	33.6	1.6	0.391	440	3,500	2,650
	70	19	11.0	1.4	2.1	37.9	1.8	0.270	380	3,500	3,580
	95	19	12.9	1.6	2.4	44.1	2.1	0.195	370	3,500	4,890
	120	37	14.5	1.6	2.5	48.1	2.2	0.154	330	3,500	5,980
	150	37	16.2	1.8	2.7	52.9	2.4	0.126	330	3,500	7,260
	185	37	18.0	2.0	2.9	58.8	2.7	0.100	330	3,500	9,060
	240	61	20.6	2.2	3.2	66.7	3.0	0.0762	320	3,500	11,770
	300	61	23.1	2.4	3.5	74.0	3.3	0.0607	310	3,500	14,600

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV BU / Class2 Conductor

No. of Cores	Conductor			Thickness of Insulation	Thickness of sheath	Overall diameter		Conductor Resistance (at 20℃) (Max.)	Insulation Resistance (at 20℃) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.			Nominal	Toler-ance				
No.	mm^2	EA	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
4C+E	1.5	7	1.7	1.0	1.2	13.7	0.8	12.2	1,320	3,500	290
4C+E	2.5	7	2.2	1.0	1.3	15.0	0.9	7.56	1,110	3,500	370
4C+E	4	7	2.7	1.0	1.3	16.3	1.0	4.70	940	3,500	470
4C+E	6	7	3.3	1.0	1.4	18.1	1.0	3.110	800	3,500	620
4C+E	10	7	4.2	1.0	1.5	20.8	1.1	1.840	650	3,500	870
4C+E	16	7	5.3	1.0	1.6	23.7	1.2	1.160	540	3,500	1,230
4C	25	7	6.6	1.2	1.8	28.1	1.4	0.734	520	3,500	1,750
Earth	16	7	5.3	1.0				1.160			
4C	35	7	7.9	1.2	1.9	31.7	1.6	0.529	450	3,500	2,340
Earth	25	7	6.6	1.2				0.734			
4C	50	19	9.1	1.4	2.1	36.3	1.8	0.391	440	3,500	3,030
Earth	25	7	6.6	1.2				0.734			
4C	70	19	11.0	1.4	2.2	40.9	1.9	0.270	380	3,500	4,070
Earth	35	7	7.9	1.2				0.529			
4C	95	19	12.9	1.6	2.5	47.6	2.2	0.195	370	3,500	5,560
Earth	50	19	9.1	1.4				0.391			
4C	120	37	14.5	1.6	2.7	52.3	2.4	0.154	330	3,500	6,910
Earth	70	19	11.0	1.4				0.270			
4C	150	37	16.2	1.8	2.9	57.8	2.6	0.126	330	3,500	8,500
Earth	95	19	12.9	1.6				0.195			
4C	185	37	18.0	2.0	3.1	63.6	2.8	0.100	330	3,500	10,330
Earth	95	19	12.9	1.6				0.195			
4C	240	61	20.6	2.2	3.4	71.8	3.2	0.0762	320	3,500	13,340
Earth	120	37	14.5	1.6				0.154			
	1.5	7	1.7	1.0	1.2	13.7	0.8	12.2	1,320	3,500	290
	2.5	7	2.2	1.0	1.3	15.0	0.9	7.56	1,110	3,500	370
	4	7	2.7	1.0	1.3	16.3	1.0	4.70	940	3,500	470
	6	7	3.3	1.0	1.4	18.1	1.0	3.110	800	3,500	620
	10	7	4.2	1.0	1.5	20.8	1.1	1.840	650	3,500	870
	16	7	5.3	1.0	1.6	23.7	1.2	1.160	540	3,500	1,230
	25	7	6.6	1.2	1.8	28.6	1.4	0.734	520	3,500	1,850
5	35	7	7.9	1.2	1.9	32.0	1.6	0.529	450	3,500	2,430
	50	19	9.1	1.4	2.1	37.3	1.8	0.391	440	3,500	3,280
	70	19	11.0	1.4	2.3	42.3	2.0	0.270	380	3,500	4,460
	95	19	12.9	1.6	2.5	48.9	2.3	0.195	370	3,500	6,050
	120	37	14.5	1.6	2.7	53.6	2.4	0.154	330	3,500	7,440
	150	37	16.2	1.8	2.9	58.9	2.7	0.126	330	3,500	9,020
	185	37	18.0	2.0	3.2	65.7	2.9	0.100	330	3,500	11,300
	240	61	20.6	2.2	3.5	74.4	3.3	0.0762	320	3,500	14,670

LV Power & Lighting Cable

0.6/1kV BU / Class2 Conductor

No. of Cores	Conductor			Thickness of Insulation	Thickness of sheath	Overall diameter		Conductor Resistance (at 20℃) (Max.)	Insulation Resistance (at 20℃) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.			Nominal	Toler-ance				
No.	mm^2	EA	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
2	1.0	7	1.4	1.0	1.1	10.0	0.7	18.2	1,490	3,500	120
5	1.0	7	1.4	1.0	1.2	12.9	0.8	18.2	1,490	3,500	230
7	1.0	7	1.4	1.0	1.3	14.2	0.9	18.2	1,490	3,500	300
8	1.0	7	1.4	1.0	1.3	15.4	0.9	18.2	1,490	3,500	330
9	1.0	7	1.4	1.0	1.3	16.5	1.0	18.2	1,490	3,500	370
10	1.0	7	1.4	1.0	1.4	18.2	1.0	18.2	1,490	3,500	420
12	1.0	7	1.4	1.0	1.4	18.8	1.1	18.2	1,490	3,500	480
14	1.0	7	1.4	1.0	1.5	20.0	1.1	18.2	1,490	3,500	550
16	1.0	7	1.4	1.0	1.5	21.1	1.1	18.2	1,490	3,500	610
19	1.0	7	1.4	1.0	1.6	22.4	1.2	18.2	1,490	3,500	710
24	1.0	7	1.4	1.0	1.7	26.4	1.4	18.2	1,490	3,500	900
27	1.0	7	1.4	1.0	1.7	27.0	1.4	18.2	1,490	3,500	980
30	1.0	7	1.4	1.0	1.8	28.2	1.4	18.2	1,490	3,500	1,090
37	1.0	7	1.4	1.0	1.9	30.8	1.5	18.2	1,490	3,500	1,330
44	1.0	7	1.4	1.0	2.0	34.8	1.7	18.2	1,490	3,500	1,580
2	1.5	7	1.7	1.0	1.1	10.6	0.7	12.2	1,320	3,500	170
5	1.5	7	1.7	1.0	1.2	13.7	0.8	12.2	1,320	3,500	290
7	1.5	7	1.7	1.0	1.3	15.1	0.9	12.2	1,320	3,500	350
8	1.5	7	1.7	1.0	1.3	16.4	1.0	12.2	1,320	3,500	390
9	1.5	7	1.7	1.0	1.4	17.8	1.0	12.2	1,320	3,500	450
10	1.5	7	1.7	1.0	1.5	19.6	1.1	12.2	1,320	3,500	510
12	1.5	7	1.7	1.0	1.5	20.2	1.1	12.2	1,320	3,500	580
14	1.5	7	1.7	1.0	1.5	21.3	1.2	12.2	1,320	3,500	650
16	1.5	7	1.7	1.0	1.6	22.7	1.2	12.2	1,320	3,500	740
19	1.5	7	1.7	1.0	1.6	23.9	1.3	12.2	1,320	3,500	850
24	1.5	7	1.7	1.0	1.8	28.4	1.4	12.2	1,320	3,500	1,090
27	1.5	7	1.7	1.0	1.8	29.2	1.5	12.2	1,320	3,500	1,210
30	1.5	7	1.7	1.0	1.9	30.5	1.5	12.2	1,320	3,500	1,340
37	1.5	7	1.7	1.0	1.9	32.9	1.6	12.2	1,320	3,500	1,600
44	1.5	7	1.7	1.0	2.1	37.4	1.8	12.2	1,320	3,500	1,920
2	2.5	7	2.2	1.0	1.2	11.6	0.8	7.56	1,110	3,500	210
5	2.5	7	2.2	1.0	1.3	15.0	0.9	7.56	1,110	3,500	370
7	2.5	7	2.2	1.0	1.3	16.3	1.0	7.56	1,110	3,500	440
8	2.5	7	2.2	1.0	1.4	17.9	1.0	7.56	1,110	3,500	510
9	2.5	7	2.2	1.0	1.5	19.5	1.1	7.56	1,110	3,500	580
10	2.5	7	2.2	1.0	1.5	21.2	1.1	7.56	1,110	3,500	640
12	2.5	7	2.2	1.0	1.5	21.9	1.2	7.56	1,110	3,500	730
14	2.5	7	2.2	1.0	1.6	23.3	1.2	7.56	1,110	3,500	840
16	2.5	7	2.2	1.0	1.6	24.6	1.3	7.56	1,110	3,500	940
19	2.5	7	2.2	1.0	1.7	26.1	1.3	7.56	1,110	3,500	1,100
24	2.5	7	2.2	1.0	1.9	31.2	1.5	7.56	1,110	3,500	1,430
27	2.5	7	2.2	1.0	1.9	31.9	1.6	7.56	1,110	3,500	1,570
30	2.5	7	2.2	1.0	2.0	33.3	1.6	7.56	1,110	3,500	1,730
37	2.5	7	2.2	1.0	2.1	36.1	1.7	7.56	1,110	3,500	2,090
44	2.5	7	2.2	1.0	2.2	40.8	1.9	7.56	1,110	3,500	2,480
2	4	7	2.7	1.0	1.2	12.6	0.8	4.70	940	3,500	260
5	4	7	2.7	1.0	1.3	16.3	1.0	4.70	940	3,500	470
7	4	7	2.7	1.0	1.4	18.0	1.0	4.70	940	3,500	580
8	4	7	2.7	1.0	1.5	19.7	1.1	4.70	940	3,500	670
9	4	7	2.7	1.0	1.5	21.3	1.2	4.70	940	3,500	740
10	4	7	2.7	1.0	1.6	23.4	1.2	4.70	940	3,500	840
12	4	7	2.7	1.0	1.6	24.2	1.3	4.70	940	3,500	960
14	4	7	2.7	1.0	1.7	25.7	1.3	4.70	940	3,500	1,110
16	4	7	2.7	1.0	1.7	27.1	1.4	4.70	940	3,500	1,250
19	4	7	2.7	1.0	1.8	29.0	1.5	4.70	940	3,500	1,480
24	4	7	2.7	1.0	2.0	34.4	1.7	4.70	940	3,500	1,880
27	4	7	2.7	1.0	2.0	35.2	1.7	4.70	940	3,500	2,070
30	4	7	2.7	1.0	2.1	36.7	1.8	4.70	940	3,500	2,290
37	4	7	2.7	1.0	2.2	39.8	1.9	4.70	940	3,500	2,770
44	4	7	2.7	1.0	2.4	45.2	2.1	4.70	940	3,500	3,320

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV FX-BU / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	±mm	kg/km
1	1.5	1.8	1.0	1.0	6.9	0.6	70
	2.5	2.4	1.0	1.0	7.3	0.6	90
	4	3.0	1.0	1.0	7.9	0.6	110
	6	3.9	1.0	1.0	8.4	0.6	130
	10	5.1	1.0	1.1	9.6	0.7	190
	16	6.3	1.0	1.1	11.1	0.7	260
	25	7.8	1.2	1.2	13.3	0.8	380
	35	9.2	1.2	1.2	14.5	0.9	480
	50	11.0	1.4	1.3	16.8	1.0	680
	70	13.1	1.4	1.4	18.9	1.1	900
	95	15.1	1.6	1.5	21.2	1.1	1,160
	120	17.0	1.6	1.6	23.2	1.2	1,440
	150	19.0	1.8	1.6	25.4	1.3	1,760
	185	21.0	2.0	1.7	27.5	1.4	2,120
	240	24.0	2.2	1.8	30.8	1.5	2,740
	300	27.0	2.4	2.0	34.1	1.7	3,440
2	1.5	1.8	1.0	1.1	11.2	0.7	180
	2.5	2.4	1.0	1.2	12.2	0.8	230
	4	3.0	1.0	1.2	13.4	0.8	290
	6	3.9	1.0	1.2	14.4	0.9	350
	10	5.1	1.0	1.3	16.6	1.0	460
	16	6.3	1.0	1.4	19.8	1.1	660
	25	7.8	1.2	1.6	24.0	1.3	1,000
	35	9.2	1.2	1.7	26.6	1.4	1,280
	50	11.0	1.4	1.9	31.2	1.5	1,810
	70	13.1	1.4	2.0	35.2	1.7	2,410
	95	15.1	1.6	2.2	39.8	1.9	3,140
	120	17.0	1.6	2.3	43.6	2.0	3,870
	150	19.0	1.8	2.5	48.4	2.2	4,840
	185	21.0	2.0	2.6	52.4	2.4	5,800
	240	24.0	2.2	2.9	59.2	2.7	7,600
	300	27.0	2.4	3.1	65.4	2.9	9,540
2C+E	1.5	1.8	1.0	1.2	12.0	0.8	220
2C+E	2.5	2.4	1.0	1.2	13.1	0.8	270
2C+E	4	3.0	1.0	1.2	14.2	0.9	340
2C+E	6	3.9	1.0	1.3	15.7	0.9	440
2C+E	10	5.1	1.0	1.4	17.8	1.0	600
2C+E	16	6.3	1.0	1.5	21.3	1.2	870
2C	25	7.8	1.2	1.6	24.8	1.3	1,180
Earth	16	6.3	1.0				
2C	35	9.2	1.2	1.7	27.9	1.4	1,570
Earth	25	7.8	1.2				
2C	50	11.0	1.4	1.9	32.0	1.6	2,080
Earth	25	7.8	1.2				
2C	70	13.1	1.4	2.0	36.0	1.7	2,760
Earth	35	9.2	1.2				
2C	95	15.1	1.6	2.2	40.9	1.9	3,660
Earth	50	11.0	1.4				
2C	120	17.0	1.6	2.4	45.2	2.1	4,640
Earth	70	13.1	1.4				
2C	150	19.0	1.8	2.6	50.4	2.3	5,850
Earth	95	15.1	1.6				
2C	185	21.0	2.0	2.7	53.9	2.5	6,780
Earth	95	15.1	1.6				
2C	240	24.0	2.2	2.9	60.5	2.7	8,760
Earth	120	17.0	1.6				

LV Power & Lighting Cable

0.6/1kV FX-BU / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	±mm	kg/km
3	1.5	1.8	1.0	1.2	12.0	0.8	220
	2.5	2.4	1.0	1.2	12.9	0.8	260
	4	3.0	1.0	1.2	14.2	0.9	340
	6	3.9	1.0	1.3	15.5	0.9	430
	10	5.1	1.0	1.4	17.8	1.0	600
	16	6.3	1.0	1.5	21.3	1.2	870
	25	7.8	1.2	1.7	25.7	1.3	1,300
	35	9.2	1.2	1.8	28.5	1.4	1,690
	50	11.0	1.4	1.9	33.2	1.6	2,360
	70	13.1	1.4	2.1	37.7	1.8	3,200
	95	15.1	1.6	2.3	42.7	2.0	4,180
	120	17.0	1.6	2.4	46.7	2.2	5,170
	150	19.0	1.8	2.6	51.9	2.4	6,460
	185	21.0	2.0	2.8	56.4	2.6	7,820
	240	24.0	2.2	3.1	63.7	2.8	10,250
	300	27.0	2.4	3.3	70.3	3.1	12,880
3C+E	1.5	1.8	1.0	1.2	13.1	0.8	260
3C+E	2.5	2.4	1.0	1.2	14.3	0.9	330
3C+E	4	3.0	1.0	1.3	15.7	0.9	420
3C+E	6	3.9	1.0	1.4	17.4	1.0	550
3C+E	10	5.1	1.0	1.4	19.5	1.1	750
3C+E	16	6.3	1.0	1.6	23.6	1.2	1,110
3C	25	7.8	1.2	1.7	27.7	1.4	1,540
Earth	16	6.3	1.0				
3C	35	9.2	1.2	1.9	31.2	1.5	2,070
Earth	25	7.8	1.2				
3C	50	11.0	1.4	2.0	35.7	1.7	2,760
Earth	25	7.8	1.2				
3C	70	13.1	1.4	2.2	40.4	1.9	3,710
Earth	35	9.2	1.2				
3C	95	15.1	1.6	2.4	45.9	2.1	4,900
Earth	50	11.0	1.4				
3C	120	17.0	1.6	2.6	50.7	2.3	6,200
Earth	70	13.1	1.4				
3C	150	19.0	1.8	2.8	56.4	2.6	7,790
Earth	95	15.1	1.6				
3C	185	21.0	2.0	2.9	60.5	2.7	9,120
Earth	95	15.1	1.6				
3C	240	24.0	2.2	3.2	68.1	3.0	11,890
Earth	120	17.0	1.6				

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV FX-BU / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	±mm	kg/km
4	1.5	1.8	1.0	1.2	13.1	0.8	260
	2.5	2.4	1.0	1.2	14.1	0.9	320
	4	3.0	1.0	1.3	15.7	0.9	420
	6	3.9	1.0	1.3	16.9	1.0	530
	10	5.1	1.0	1.4	19.5	1.1	750
	16	6.3	1.0	1.6	23.6	1.2	1,110
	25	7.8	1.2	1.8	28.5	1.4	1,670
	35	9.2	1.2	1.9	31.6	1.6	2,170
	50	11.0	1.4	2.1	37.1	1.8	3,080
	70	13.1	1.4	2.3	42.1	2.0	4,170
	95	15.1	1.6	2.5	47.5	2.2	5,430
	120	17.0	1.6	2.6	52.1	2.4	6,740
	150	19.0	1.8	2.8	57.8	2.6	8,410
	185	21.0	2.0	3.0	62.8	2.8	10,180
	240	24.0	2.2	3.3	70.8	3.1	13,330
	300	27.0	2.4	3.6	78.4	3.4	16,850
4C+E	1.5	1.8	1.0	1.2	14.3	0.9	310
4C+E	2.5	2.4	1.0	1.3	15.8	0.9	400
4C+E	4	3.0	1.0	1.4	17.4	1.0	520
4C+E	6	3.9	1.0	1.4	19.0	1.1	660
4C+E	10	5.1	1.0	1.5	21.6	1.2	930
4C+E	16	6.3	1.0	1.7	26.1	1.3	1,370
4C	25	7.8	1.2	1.8	30.7	1.5	1,930
Earth	16	6.3	1.0				
4C	35	9.2	1.2	2.0	34.6	1.7	2,580
Earth	25	7.8	1.2				
4C	50	11.0	1.4	2.2	39.9	1.9	3,520
Earth	25	7.8	1.2				
4C	70	13.1	1.4	2.4	45.2	2.1	4,750
Earth	35	9.2	1.2				
4C	95	15.1	1.6	2.6	51.3	2.4	6,250
Earth	50	11.0	1.4				
4C	120	17.0	1.6	2.8	56.6	2.6	7,880
Earth	70	13.1	1.4				
4C	150	19.0	1.8	3.0	62.9	2.8	9,880
Earth	95	15.1	1.6				
4C	185	21.0	2.0	3.2	67.8	3.0	11,720
Earth	95	15.1	1.6				
4C	240	24.0	2.2	3.5	76.3	3.4	15,280
Earth	120	17.0	1.6				

LV Power & Lighting Cable

0.6/1kV FX-BU / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	±mm	kg/km
5	1.0	1.5	1.0	1.2	13.5	0.8	270
7	1.0	1.5	1.0	1.3	14.8	0.9	340
9	1.0	1.5	1.0	1.3	17.1	1.0	430
12	1.0	1.5	1.0	1.4	19.4	1.1	560
14	1.0	1.5	1.0	1.5	20.6	1.1	640
16	1.0	1.5	1.0	1.5	21.7	1.2	710
19	1.0	1.5	1.0	1.6	23.0	1.2	820
24	1.0	1.5	1.0	1.7	27.0	1.4	1,090
27	1.0	1.5	1.0	1.7	27.6	1.4	1,170
30	1.0	1.5	1.0	1.8	28.8	1.5	1,290
37	1.0	1.5	1.0	1.9	31.2	1.5	1,550
44	1.0	1.5	1.0	2.0	35.2	1.7	1,910
5	1.5	1.8	1.0	1.2	14.3	0.9	310
7	1.5	1.8	1.0	1.3	15.7	0.9	390
9	1.5	1.8	1.0	1.4	18.4	1.0	520
12	1.5	1.8	1.0	1.5	20.8	1.1	670
14	1.5	1.8	1.0	1.5	21.9	1.2	760
16	1.5	1.8	1.0	1.6	23.3	1.2	860
19	1.5	1.8	1.0	1.6	24.5	1.3	980
24	1.5	1.8	1.0	1.8	29.0	1.5	1,310
27	1.5	1.8	1.0	1.8	29.6	1.5	1,410
30	1.5	1.8	1.0	1.9	30.9	1.5	1,560
37	1.5	1.8	1.0	1.9	33.3	1.6	1,840
44	1.5	1.8	1.0	2.1	37.8	1.8	2,310
5	2.5	2.4	1.0	1.3	15.6	0.9	390
7	2.5	2.4	1.0	1.3	16.9	1.0	490
9	2.5	2.4	1.0	1.5	20.1	1.1	670
12	2.5	2.4	1.0	1.5	22.5	1.2	850
14	2.5	2.4	1.0	1.6	23.9	1.3	970
16	2.5	2.4	1.0	1.6	25.2	1.3	1,090
19	2.5	2.4	1.0	1.7	26.7	1.4	1,260
24	2.5	2.4	1.0	1.9	31.6	1.6	1,680
27	2.5	2.4	1.0	1.9	32.3	1.6	1,820
30	2.5	2.4	1.0	2.0	33.7	1.6	2,000
37	2.5	2.4	1.0	2.1	36.5	1.8	2,410
44	2.5	2.4	1.0	2.2	41.2	1.9	2,970
5	4	3.0	1.0	1.4	17.4	1.0	520
7	4	3.0	1.0	1.4	18.9	1.1	660
9	4	3.0	1.0	1.5	22.2	1.2	870
12	4	3.0	1.0	1.6	25.2	1.3	1,140
14	4	3.0	1.0	1.7	26.7	1.4	1,310
16	4	3.0	1.0	1.8	28.4	1.4	1,490
19	4	3.0	1.0	1.8	29.9	1.5	1,700
24	4	3.0	1.0	2.0	35.4	1.7	2,270
27	4	3.0	1.0	2.1	36.4	1.8	2,490
30	4	3.0	1.0	2.1	37.7	1.8	2,710
37	4	3.0	1.0	2.2	40.9	1.9	3,270
44	4	3.0	1.0	2.4	46.4	2.2	4,070

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV BU (Fire resistant with water) / Class2 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	±mm	kg/km
1	1.5	1.7	1.0	1.0	6.8	0.6	70
	2.5	2.2	1.0	1.0	7.2	0.6	80
	4	2.7	1.0	1.0	7.7	0.6	100
	6	3.3	1.0	1.0	8.3	0.6	130
	10	4.2	1.0	1.1	9.4	0.7	180
	16	5.3	1.0	1.1	10.4	0.7	250
	25	6.6	1.2	1.2	12.3	0.8	370
	35	7.9	1.2	1.2	13.4	0.8	470
	50	9.1	1.4	1.3	15.4	0.9	630
	70	11.0	1.4	1.4	17.4	1.0	850
	95	12.9	1.6	1.4	19.6	1.1	1,130
	120	14.5	1.6	1.5	21.4	1.2	1,390
	150	16.2	1.8	1.6	23.5	1.2	1,700
	185	18.0	2.0	1.7	25.9	1.3	2,100
	240	20.6	2.2	1.8	29.1	1.5	2,720
	300	23.1	2.4	1.9	32.1	1.6	3,360
	400	26.1	2.6	2.1	36.8	1.8	4,540
	500	29.2	2.8	2.2	40.1	1.9	5,480
	630	33.2	2.8	2.4	44.7	2.1	7,050
2	1.5	1.7	1.0	1.1	11.2	0.7	170
	2.5	2.2	1.0	1.2	12.2	0.8	210
	4	2.7	1.0	1.2	13.3	0.8	260
	6	3.3	1.0	1.2	14.4	0.9	320
	10	4.2	1.0	1.3	16.4	1.0	450
	16	5.3	1.0	1.4	18.8	1.1	630
	25	6.6	1.2	1.5	22.3	1.2	920
	35	7.9	1.2	1.6	24.8	1.3	1,190
	50	9.1	1.4	1.8	28.7	1.4	1,610
	70	11.0	1.4	1.9	32.4	1.6	2,170
	95	12.9	1.6	2.1	37.3	1.8	2,950
	120	14.5	1.6	2.2	40.7	1.9	3,610
	150	16.2	1.8	2.4	44.8	2.1	4,450
	185	18.0	2.0	2.5	49.6	2.3	5,510
	240	20.6	2.2	2.8	56.2	2.5	7,240
	300	23.1	2.4	3.0	62.1	2.8	8,990
2C+E	1.5	1.7	1.0	1.2	12.1	0.8	210
2C+E	2.5	2.2	1.0	1.2	13.0	0.8	250
2C+E	4	2.7	1.0	1.2	14.1	0.9	320
2C+E	6	3.3	1.0	1.3	15.5	0.9	420
2C+E	10	4.2	1.0	1.4	17.6	1.0	590
2C+E	16	5.3	1.0	1.4	20.0	1.1	820
2C	25	6.6	1.2	1.6	23.3	1.2	1,120
Earth	16	5.3	1.0				
2C	35	7.9	1.2	1.7	26.3	1.4	1,510
Earth	25	6.6	1.2				
2C	50	9.1	1.4	1.8	29.2	1.5	1,880
Earth	25	6.6	1.2				
2C	70	11.0	1.4	1.9	32.9	1.6	2,520
Earth	35	7.9	1.2				
2C	95	12.9	1.6	2.1	37.9	1.8	3,430
Earth	50	9.1	1.4				
2C	120	14.5	1.6	2.3	41.8	2.0	4,340
Earth	70	11.0	1.4				
2C	150	16.2	1.8	2.4	46.4	2.2	5,430
Earth	95	12.9	1.6				
2C	185	18.0	2.0	2.6	50.4	2.3	6,460
Earth	95	12.9	1.6				
2C	240	20.6	2.2	2.8	56.5	2.6	8,330
Earth	120	14.5	1.6				

LV Power & Lighting Cable

0.6/1kV BU (Fire resistant with water) / Class2 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	±mm	kg/km
3	1.5	1.7	1.0	1.2	12.1	0.8	210
	2.5	2.2	1.0	1.2	13.0	0.8	250
	4	2.7	1.0	1.2	14.1	0.9	320
	6	3.3	1.0	1.3	15.5	0.9	420
	10	4.2	1.0	1.4	17.6	1.0	590
	16	5.3	1.0	1.4	20.0	1.1	820
	25	6.6	1.2	1.6	24.0	1.3	1,230
	35	7.9	1.2	1.7	26.6	1.4	1,610
	50	9.1	1.4	1.8	30.6	1.5	2,150
	70	11.0	1.4	2.0	34.8	1.7	2,940
	95	12.9	1.6	2.2	40.0	1.9	4,000
	120	14.5	1.6	2.3	43.6	2.0	4,910
	150	16.2	1.8	2.5	48.1	2.2	6,050
	185	18.0	2.0	2.7	53.4	2.4	7,550
	240	20.6	2.2	2.9	60.3	2.7	9,830
	300	23.1	2.4	3.2	66.8	3.0	12,300
3C+E	1.5	1.7	1.0	1.2	13.2	0.8	250
3C+E	2.5	2.2	1.0	1.2	14.2	0.9	310
3C+E	4	2.7	1.0	1.3	15.6	0.9	410
3C+E	6	3.3	1.0	1.3	17.0	1.0	520
3C+E	10	4.2	1.0	1.4	19.4	1.1	740
3C+E	16	5.3	1.0	1.5	22.2	1.2	1,050
3C	25	6.6	1.2	1.7	25.8	1.3	1,470
Earth	16	5.3	1.0				
3C	35	7.9	1.2	1.8	28.9	1.5	1,960
Earth	25	6.6	1.2				
3C	50	9.1	1.4	1.9	32.5	1.6	2,500
Earth	25	6.6	1.2				
3C	70	11.0	1.4	2.1	36.8	1.8	3,410
Earth	35	7.9	1.2				
3C	95	12.9	1.6	2.3	42.4	2.0	4,630
Earth	50	9.1	1.4				
3C	120	14.5	1.6	2.5	46.7	2.2	5,820
Earth	70	11.0	1.4				
3C	150	16.2	1.8	2.6	51.6	2.4	7,240
Earth	95	12.9	1.6				
3C	185	18.0	2.0	2.8	56.3	2.6	8,720
Earth	95	12.9	1.6				
3C	240	20.6	2.2	3.1	63.5	2.8	11,340
Earth	120	14.5	1.6				

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV BU (Fire resistant with water) / Class2 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	±mm	kg/km
4	1.5	1.7	1.0	1.2	13.2	0.8	250
	2.5	2.2	1.0	1.2	14.2	0.9	310
	4	2.7	1.0	1.3	15.6	0.9	410
	6	3.3	1.0	1.3	17.0	1.0	520
	10	4.2	1.0	1.4	19.4	1.1	740
	16	5.3	1.0	1.5	22.2	1.2	1,050
	25	6.6	1.2	1.7	26.6	1.4	1,590
	35	7.9	1.2	1.8	29.5	1.5	2,080
	50	9.1	1.4	2.0	34.2	1.7	2,810
	70	11.0	1.4	2.1	38.6	1.8	3,820
	95	12.9	1.6	2.4	44.7	2.1	5,240
	120	14.5	1.6	2.5	48.7	2.2	6,420
	150	16.2	1.8	2.7	53.6	2.4	7,910
	185	18.0	2.0	2.9	59.5	2.7	9,870
	240	20.6	2.2	3.2	67.4	3.0	12,930
	300	23.1	2.4	3.5	74.6	3.3	16,150
4C+E	1.5	1.7	1.0	1.2	14.4	0.9	300
4C+E	2.5	2.2	1.0	1.3	15.7	0.9	390
4C+E	4	2.7	1.0	1.3	17.1	1.0	490
4C+E	6	3.3	1.0	1.4	18.8	1.1	640
4C+E	10	4.2	1.0	1.5	21.5	1.2	920
4C+E	16	5.3	1.0	1.6	24.6	1.3	1,310
4C	25	6.6	1.2	1.8	28.8	1.5	1,860
Earth	16	5.3	1.0				
4C	35	7.9	1.2	1.9	32.3	1.6	2,470
Earth	25	6.6	1.2				
4C	50	9.1	1.4	2.1	36.6	1.8	3,210
Earth	25	6.6	1.2				
4C	70	11.0	1.4	2.2	41.3	2.0	4,340
Earth	35	7.9	1.2				
4C	95	12.9	1.6	2.5	47.7	2.2	5,950
Earth	50	9.1	1.4				
4C	120	14.5	1.6	2.7	52.5	2.4	7,440
Earth	70	11.0	1.4				
4C	150	16.2	1.8	2.9	58.1	2.6	9,290
Earth	95	12.9	1.6				
4C	185	18.0	2.0	3.1	63.7	2.8	11,270
Earth	95	12.9	1.6				
4C	240	20.6	2.2	3.4	71.8	3.2	14,680
Earth	120	14.5	1.6				
5	1.5	1.7	1.0	1.2	14.4	0.9	300
	2.5	2.2	1.0	1.3	15.7	0.9	390
	4	2.7	1.0	1.3	17.1	1.0	490
	6	3.3	1.0	1.4	18.8	1.1	640
	10	4.2	1.0	1.5	21.5	1.2	920
	16	5.3	1.0	1.6	24.6	1.3	1,310
	25	6.6	1.2	1.8	29.5	1.5	1,980
	35	7.9	1.2	1.9	32.7	1.6	2,580
	50	9.1	1.4	2.1	37.9	1.8	3,490
	70	11.0	1.4	2.3	43.1	2.0	4,790
	95	12.9	1.6	2.5	49.5	2.3	6,510
	120	14.5	1.6	2.7	54.2	2.5	8,050
	150	16.2	1.8	2.9	59.6	2.7	9,910
	185	18.0	2.0	3.2	66.4	3.0	12,430
	240	20.6	2.2	3.5	75.1	3.3	16,280

LV Power & Lighting Cable

0.6/1kV BU (Fire resistant with water) / Class2 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	±mm	kg/km
2	1.0	1.4	1.0	1.1	10.7	0.7	150
5	1.0	1.4	1.0	1.2	13.7	0.8	260
7	1.0	1.4	1.0	1.3	15.0	0.9	340
8	1.0	1.4	1.0	1.3	16.3	1.0	380
9	1.0	1.4	1.0	1.3	17.5	1.0	440
10	1.0	1.4	1.0	1.4	19.2	1.1	510
12	1.0	1.4	1.0	1.4	19.8	1.1	570
14	1.0	1.4	1.0	1.5	21.1	1.1	650
16	1.0	1.4	1.0	1.5	22.2	1.2	730
19	1.0	1.4	1.0	1.6	23.6	1.2	840
24	1.0	1.4	1.0	1.7	27.8	1.4	1,120
27	1.0	1.4	1.0	1.7	28.4	1.4	1,200
30	1.0	1.4	1.0	1.8	29.6	1.5	1,320
37	1.0	1.4	1.0	1.9	32.2	1.6	1,590
44	1.0	1.4	1.0	2.0	36.3	1.8	1,970
2	1.5	1.7	1.0	1.1	11.2	0.7	170
5	1.5	1.7	1.0	1.2	14.4	0.9	300
7	1.5	1.7	1.0	1.3	15.9	0.9	390
8	1.5	1.7	1.0	1.3	17.2	1.0	450
9	1.5	1.7	1.0	1.4	18.7	1.0	520
10	1.5	1.7	1.0	1.5	20.5	1.1	610
12	1.5	1.7	1.0	1.5	21.2	1.1	680
14	1.5	1.7	1.0	1.5	22.3	1.2	760
16	1.5	1.7	1.0	1.6	23.7	1.2	870
19	1.5	1.7	1.0	1.6	25.0	1.3	990
24	1.5	1.7	1.0	1.8	29.6	1.5	1,340
27	1.5	1.7	1.0	1.8	30.3	1.5	1,440
30	1.5	1.7	1.0	1.9	31.6	1.6	1,590
37	1.5	1.7	1.0	1.9	34.1	1.7	1,880
44	1.5	1.7	1.0	2.1	38.7	1.8	2,360
2	2.5	2.2	1.0	1.2	12.2	0.8	210
5	2.5	2.2	1.0	1.3	15.7	0.9	390
7	2.5	2.2	1.0	1.3	17.1	1.0	490
8	2.5	2.2	1.0	1.4	18.7	1.0	580
9	2.5	2.2	1.0	1.5	20.4	1.1	670
10	2.5	2.2	1.0	1.5	22.2	1.2	760
12	2.5	2.2	1.0	1.5	22.9	1.2	850
14	2.5	2.2	1.0	1.6	24.3	1.3	980
16	2.5	2.2	1.0	1.6	25.7	1.3	1,100
19	2.5	2.2	1.0	1.7	27.3	1.4	1,280
24	2.5	2.2	1.0	1.9	32.3	1.6	1,710
27	2.5	2.2	1.0	1.9	33.0	1.6	1,850
30	2.5	2.2	1.0	2.0	34.5	1.7	2,040
37	2.5	2.2	1.0	2.1	37.4	1.8	2,470
44	2.5	2.2	1.0	2.2	42.3	2.0	3,040
2	4	2.7	1.0	1.2	13.3	0.8	260
5	4	2.7	1.0	1.3	17.1	1.0	490
7	4	2.7	1.0	1.4	18.8	1.1	640
8	4	2.7	1.0	1.5	20.6	1.1	750
9	4	2.7	1.0	1.5	22.2	1.2	860
10	4	2.7	1.0	1.6	24.4	1.3	990
12	4	2.7	1.0	1.6	25.2	1.3	1,120
14	4	2.7	1.0	1.7	26.8	1.4	1,290
16	4	2.7	1.0	1.7	28.3	1.4	1,450
19	4	2.7	1.0	1.8	30.0	1.5	1,680
24	4	2.7	1.0	2.0	35.6	1.7	2,250
27	4	2.7	1.0	2.0	36.4	1.8	2,440
30	4	2.7	1.0	2.1	37.9	1.8	2,690
37	4	2.7	1.0	2.2	41.2	1.9	3,250
44	4	2.7	1.0	2.4	46.7	2.2	4,050

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV FX-BU (Fire resistant with water) / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	±mm	kg/km
1	1.5	1.8	1.0	1.0	7.2	0.6	80
	2.5	2.4	1.0	1.0	7.6	0.6	90
	4	3.0	1.0	1.0	8.2	0.6	120
	6	3.9	1.0	1.0	8.9	0.7	140
	10	5.1	1.0	1.1	10.0	0.7	200
	16	6.3	1.0	1.1	11.7	0.8	270
	25	7.8	1.2	1.2	13.7	0.8	390
	35	9.2	1.2	1.2	14.9	0.9	490
	50	11.0	1.4	1.3	17.2	1.0	690
	70	13.1	1.4	1.4	19.3	1.1	920
	95	15.1	1.6	1.5	21.6	1.2	1,180
	120	17.0	1.6	1.6	23.6	1.2	1,460
	150	19.0	1.8	1.6	25.8	1.3	1,780
	185	21.0	2.0	1.7	27.9	1.4	2,140
	240	24.0	2.2	1.8	31.2	1.5	2,760
	300	27.0	2.4	2.0	34.5	1.7	3,470
2	1.5	1.8	1.0	1.1	11.8	0.8	190
	2.5	2.4	1.0	1.2	12.9	0.8	230
	4	3.0	1.0	1.2	14.0	0.9	290
	6	3.9	1.0	1.2	15.1	0.9	350
	10	5.1	1.0	1.3	17.1	1.0	480
	16	6.3	1.0	1.4	20.6	1.1	700
	25	7.8	1.2	1.6	24.6	1.3	1,020
	35	9.2	1.2	1.7	27.2	1.4	1,310
	50	11.0	1.4	1.9	31.8	1.6	1,850
	70	13.1	1.4	2.0	35.8	1.7	2,450
	95	15.1	1.6	2.2	40.4	1.9	3,180
	120	17.0	1.6	2.3	44.2	2.1	3,920
	150	19.0	1.8	2.5	49.0	2.3	4,890
	185	21.0	2.0	2.6	53.0	2.4	5,860
	240	24.0	2.2	2.9	59.8	2.7	7,660
	300	27.0	2.4	3.1	66.0	2.9	9,610
2C+E	1.5	1.8	1.0	1.2	12.7	0.8	230
2C+E	2.5	2.4	1.0	1.2	13.7	0.8	280
2C+E	4	3.0	1.0	1.2	14.8	0.9	350
2C+E	6	3.9	1.0	1.3	16.2	0.9	450
2C+E	10	5.1	1.0	1.4	18.4	1.0	620
2C+E	16	6.3	1.0	1.5	22.1	1.2	910
2C	25	7.8	1.2	1.6	25.4	1.3	1,210
Earth	16	6.3	1.0				
2C	35	9.2	1.2	1.7	28.6	1.4	1,610
Earth	25	7.8	1.2				
2C	50	11.0	1.4	1.9	32.3	1.6	2,100
Earth	25	7.8	1.2				
2C	70	13.1	1.4	2.0	36.2	1.7	2,790
Earth	35	9.2	1.2				
2C	95	15.1	1.6	2.2	41.2	1.9	3,690
Earth	50	11.0	1.4				
2C	120	17.0	1.6	2.4	45.6	2.1	4,690
Earth	70	13.1	1.4				
2C	150	19.0	1.8	2.6	50.8	2.3	5,900
Earth	95	15.1	1.6				
2C	185	21.0	2.0	2.7	53.9	2.5	6,800
Earth	95	15.1	1.6				
2C	240	24.0	2.2	2.9	60.3	2.7	8,760
Earth	120	17.0	1.6				

LV Power & Lighting Cable

0.6/1kV FX-BU (Fire resistant with water) / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	±mm	kg/km
3	1.5	1.8	1.0	1.2	12.7	0.8	230
	2.5	2.4	1.0	1.2	13.7	0.8	280
	4	3.0	1.0	1.2	14.8	0.9	350
	6	3.9	1.0	1.3	16.2	0.9	450
	10	5.1	1.0	1.4	18.4	1.0	620
	16	6.3	1.0	1.5	22.1	1.2	910
	25	7.8	1.2	1.7	26.4	1.4	1,340
	35	9.2	1.2	1.8	29.2	1.5	1,730
	50	11.0	1.4	1.9	33.9	1.7	2,410
	70	13.1	1.4	2.1	38.4	1.8	3,260
	95	15.1	1.6	2.3	43.3	2.0	4,240
	120	17.0	1.6	2.4	47.4	2.2	5,250
	150	19.0	1.8	2.6	52.5	2.4	6,540
	185	21.0	2.0	2.8	57.0	2.6	7,910
	240	24.0	2.2	3.1	64.3	2.9	10,350
	300	27.0	2.4	3.3	71.0	3.1	12,990
3C+E	1.5	1.8	1.0	1.2	13.8	0.9	280
3C+E	2.5	2.4	1.0	1.2	14.9	0.9	340
3C+E	4	3.0	1.0	1.3	16.4	1.0	450
3C+E	6	3.9	1.0	1.4	18.0	1.0	570
3C+E	10	5.1	1.0	1.4	20.1	1.1	780
3C+E	16	6.3	1.0	1.6	24.5	1.3	1,160
3C	25	7.8	1.2	1.7	28.1	1.4	1,570
Earth	16	6.3	1.0				
3C	35	9.2	1.2	1.9	31.7	1.6	2,100
Earth	25	7.8	1.2				
3C	50	11.0	1.4	2.0	35.9	1.7	2,780
Earth	25	7.8	1.2				
3C	70	13.1	1.4	2.2	40.5	1.9	3,740
Earth	35	9.2	1.2				
3C	95	15.1	1.6	2.4	45.9	2.1	4,920
Earth	50	11.0	1.4				
3C	120	17.0	1.6	2.6	50.7	2.3	6,230
Earth	70	13.1	1.4				
3C	150	19.0	1.8	2.8	56.4	2.6	7,820
Earth	95	15.1	1.6				
3C	185	21.0	2.0	2.9	60.2	2.7	9,120
Earth	95	15.1	1.6				
3C	240	24.0	2.2	3.2	67.6	3.0	11,860
Earth	120	17.0	1.6				

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV FX-BU (Fire resistant with water) / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	±mm	kg/km
4	1.5	1.8	1.0	1.2	13.8	0.9	280
	2.5	2.4	1.0	1.2	14.9	0.9	340
	4	3.0	1.0	1.3	16.4	1.0	450
	6	3.9	1.0	1.3	17.8	1.0	560
	10	5.1	1.0	1.4	20.1	1.1	780
	16	6.3	1.0	1.6	24.5	1.3	1,160
	25	7.8	1.2	1.8	29.2	1.5	1,720
	35	9.2	1.2	1.9	32.3	1.6	2,220
	50	11.0	1.4	2.1	37.8	1.8	3,140
	70	13.1	1.4	2.3	42.8	2.0	4,240
	95	15.1	1.6	2.5	48.2	2.2	5,520
	120	17.0	1.6	2.6	52.8	2.4	6,830
	150	19.0	1.8	2.8	58.5	2.6	8,510
	185	21.0	2.0	3.0	63.5	2.8	10,300
	240	24.0	2.2	3.3	71.6	3.2	13,470
	300	27.0	2.4	3.6	79.2	3.5	17,020
4C+E	1.5	1.8	1.0	1.2	15.0	0.9	330
4C+E	2.5	2.4	1.0	1.3	16.4	1.0	420
4C+E	4	3.0	1.0	1.4	18.1	1.0	550
4C+E	6	3.9	1.0	1.4	19.6	1.1	690
4C+E	10	5.1	1.0	1.5	22.3	1.2	960
4C+E	16	6.3	1.0	1.7	27.1	1.4	1,440
4C	25	7.8	1.2	1.8	31.3	1.6	1,980
Earth	16	6.3	1.0				
4C	35	9.2	1.2	2.0	35.2	1.7	2,640
Earth	25	7.8	1.2				
4C	50	11.0	1.4	2.2	40.4	1.9	3,570
Earth	25	7.8	1.2				
4C	70	13.1	1.4	2.4	45.6	2.1	4,800
Earth	35	9.2	1.2				
4C	95	15.1	1.6	2.6	51.6	2.4	6,310
Earth	50	11.0	1.4				
4C	120	17.0	1.6	2.8	56.9	2.6	7,950
Earth	70	13.1	1.4				
4C	150	19.0	1.8	3.0	63.2	2.8	9,960
Earth	95	15.1	1.6				
4C	185	21.0	2.0	3.2	67.9	3.0	11,770
Earth	95	15.1	1.6				
4C	240	24.0	2.2	3.5	76.3	3.4	15,320
Earth	120	17.0	1.6				

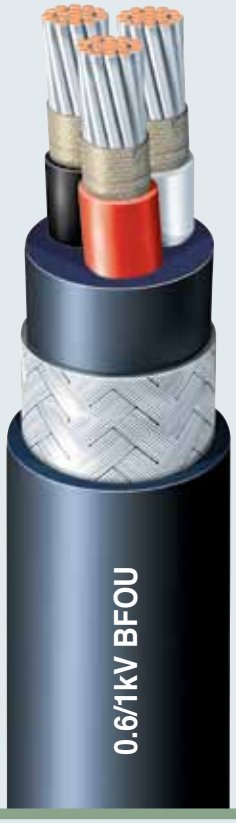
LV Power & Lighting Cable

0.6/1kV FX-BU (Fire resistant with water) / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	±mm	kg/km
5	1.0	1.5	1.0	1.2	14.3	0.9	290
7	1.0	1.5	1.0	1.3	15.7	0.9	370
9	1.0	1.5	1.0	1.3	18.2	1.0	470
12	1.0	1.5	1.0	1.4	20.5	1.1	610
14	1.0	1.5	1.0	1.5	21.8	1.2	700
16	1.0	1.5	1.0	1.5	22.9	1.2	780
19	1.0	1.5	1.0	1.6	24.3	1.3	890
24	1.0	1.5	1.0	1.7	28.5	1.4	1,180
27	1.0	1.5	1.0	1.7	29.1	1.5	1,270
30	1.0	1.5	1.0	1.8	30.4	1.5	1,400
37	1.0	1.5	1.0	1.9	32.9	1.6	1,680
44	1.0	1.5	1.0	2.0	37.1	1.8	2,070
5	1.5	1.8	1.0	1.2	15.0	0.9	330
7	1.5	1.8	1.0	1.3	16.5	1.0	420
9	1.5	1.8	1.0	1.4	19.3	1.1	560
12	1.5	1.8	1.0	1.5	21.8	1.2	720
14	1.5	1.8	1.0	1.5	23.0	1.2	810
16	1.5	1.8	1.0	1.6	24.4	1.3	920
19	1.5	1.8	1.0	1.6	25.7	1.3	1,050
24	1.5	1.8	1.0	1.8	30.3	1.5	1,410
27	1.5	1.8	1.0	1.8	31.0	1.5	1,510
30	1.5	1.8	1.0	1.9	32.3	1.6	1,660
37	1.5	1.8	1.0	1.9	34.8	1.7	1,970
44	1.5	1.8	1.0	2.1	39.5	1.9	2,470
5	2.5	2.4	1.0	1.3	16.4	1.0	420
7	2.5	2.4	1.0	1.3	17.8	1.0	530
9	2.5	2.4	1.0	1.5	21.1	1.1	710
12	2.5	2.4	1.0	1.5	23.7	1.2	910
14	2.5	2.4	1.0	1.6	25.1	1.3	1,040
16	2.5	2.4	1.0	1.6	26.4	1.4	1,170
19	2.5	2.4	1.0	1.7	28.1	1.4	1,350
24	2.5	2.4	1.0	1.9	33.2	1.6	1,810
27	2.5	2.4	1.0	1.9	33.9	1.7	1,950
30	2.5	2.4	1.0	2.0	35.3	1.7	2,150
37	2.5	2.4	1.0	2.1	38.3	1.8	2,580
44	2.5	2.4	1.0	2.2	43.2	2.0	3,180
5	4	3.0	1.0	1.4	18.1	1.0	550
7	4	3.0	1.0	1.4	19.7	1.1	690
9	4	3.0	1.0	1.5	23.1	1.2	920
12	4	3.0	1.0	1.6	26.2	1.3	1,200
14	4	3.0	1.0	1.7	27.7	1.4	1,370
16	4	3.0	1.0	1.8	29.4	1.5	1,560
19	4	3.0	1.0	1.8	31.0	1.5	1,790
24	4	3.0	1.0	2.0	36.7	1.8	2,380
27	4	3.0	1.0	2.1	37.7	1.8	2,610
30	4	3.0	1.0	2.1	39.0	1.9	2,840
37	4	3.0	1.0	2.2	42.3	2.0	3,430
44	4	3.0	1.0	2.4	48.0	2.2	4,260

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376



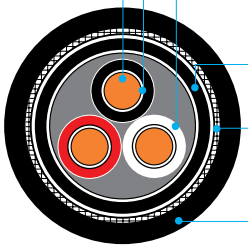
Cable Designation (P105)

0.6/1kV BFOU

Application Standard

- Design guide : NEK-606 & IEC 60092-353
- Flame retardant : IEC 60332-1 & IEC 60332-3 Category A
- Fire resistance : IEC 60331-21(90min) & IEC 60331-1,-2(120min) Option : EN 50200(15min) / BS 8491(5min)
- Halogen content : IEC 60754-1, 0.5% ↓
- Cold bend / impact : CSA 22.2 No.03 (-40℃/-35℃)
- Mud / Oil resistant : NEK-606 (Category a, b, c, d)
- Smoke light transmittance : IEC 61034, 60% ↑
- Sunlight (UV) resistant : UL 1581

Construction

Sectional view	Classification	Code	Construction detail
	Conductor	FX-	- Stranded tinned annealed copper wires as per IEC 60228, Class 2 - Option : Stranded tinned annealed copper wires as per IEC 60228, Class 5 (FX-added)
	Fire resisting layer	B	- Mica/glass tape
	Insulation		- EPR as per IEC 60092-360
	Cabling		- Insulated cores shall be cabled - Flame retardant & non-hygroscopic fillers may be used - Suitable tape(s) may be applied on the cabled core - A Filler may be applied to obtain a circular Cable
	Inner covering	F	- Flame retardant halogen free thermoset compound
	Armor	O (B,C)	- Braid of tinned copper wire (O) - Option : Bronze wire braid (B) /galvanized steel wire braid (C) - A suitable separator tape(s) may be applied under/over the armor
	Sheath	U	- SHF2 as per IEC 60092-360 - Option : NEK-606 (Category a, b, c, d) / Mud or oil resistant - Outer sheath color : Black
	Core identification		

No. of cores	Without Earth core	With Earth core
1C	Off-white or Black	-
2C	Off-white, Black	-
3C / 2C + E	Off-white, Black, Red	Off-white, Black, G/Y
4C / 3C + E	Off-white, Black, Red, Blue	Off-white, Black, Red, G/Y
5C / 4C + E	Black No. on white insulation	Off-white, Black, Red, Blue, G/Y
6C and over	Black No. on white insulation	Black No. on white insulation, G/Y

Note. Earth core(G/Y) : Yellow/Green(Green base color with yellow stripe)

LV Power & Lighting Cable

0.6/1kV BFOU, 0.6/1kV BFBU / Class2 Conductor

No. of Cores	Conductor			Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Conductor Resistance (at 20℃) (Max.)	Insulation Resistance (at 20℃) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.						Nominal	Tolerance				
No.	mm^2	EA	mm	mm	mm	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
1	1.5	7	1.7	1.0	1.0	6.1	0.3	1.1	9.8	0.6	12.2	1,320	3,500	170
	2.5	7	2.2	1.0	1.0	6.5	0.3	1.1	10.2	0.6	7.56	1,110	3,500	190
	4	7	2.7	1.0	1.0	7.0	0.3	1.1	10.7	0.6	4.70	940	3,500	210
	6	7	3.3	1.0	1.0	7.6	0.3	1.2	11.5	0.6	3.110	800	3,500	250
	10	7	4.2	1.0	1.0	8.5	0.3	1.2	12.4	0.7	1.840	650	3,500	310
	16	7	5.3	1.0	1.0	9.5	0.3	1.2	13.4	0.7	1.160	540	3,500	390
	25	7	6.6	1.2	1.0	11.2	0.3	1.3	15.3	0.8	0.734	520	3,500	530
	35	7	7.9	1.2	1.0	12.3	0.3	1.3	16.4	0.8	0.529	450	3,500	650
	50	19	9.1	1.4	1.0	14.1	0.3	1.4	18.4	0.9	0.391	440	3,500	830
	70	19	11.0	1.4	1.0	15.8	0.3	1.5	20.3	0.9	0.270	380	3,500	1,080
	95	19	12.9	1.6	1.0	18.1	0.3	1.6	22.8	1.0	0.195	370	3,500	1,410
	120	37	14.5	1.6	1.0	19.7	0.3	1.6	24.4	1.0	0.154	330	3,500	1,680
	150	37	16.2	1.8	1.0	21.5	0.3	1.7	26.4	1.1	0.126	330	3,500	2,000
	185	37	18.0	2.0	1.0	23.8	0.3	1.8	28.9	1.2	0.100	330	3,500	2,440
	240	61	20.6	2.2	1.0	26.8	0.3	1.9	32.1	1.3	0.0762	320	3,500	3,100
	300	61	23.1	2.4	1.2	30.4	0.4	2.1	36.5	1.4	0.0607	310	3,500	3,960
	400	61	26.1	2.6	1.2	34.6	0.4	2.3	41.1	1.9	0.0475	290	3,500	5,220
	500	61	29.2	2.8	1.2	37.7	0.4	2.4	44.4	2.1	0.0369	280	3,500	6,220
	630	91	33.2	2.8	1.4	42.3	0.4	2.6	49.4	2.3	0.0286	250	3,500	7,910

0.6/1kV BFOU, 0.6/1kV BFCU, 0.6/1kV BFBU / Class2 Conductor

2	1.5	7	1.7	1.0	1.0	10.2	0.3	1.3	14.3	0.9	12.2	1,320	3,500	330
	2.5	7	2.2	1.0	1.0	11.0	0.3	1.3	15.1	0.9	7.56	1,110	3,500	380
	4	7	2.7	1.0	1.0	12.0	0.3	1.3	16.1	0.9	4.70	940	3,500	450
	6	7	3.3	1.0	1.0	13.2	0.3	1.4	17.5	1.0	3.110	800	3,500	540
	10	7	4.2	1.0	1.0	15.0	0.3	1.5	19.5	1.1	1.840	650	3,500	660
	16	7	5.3	1.0	1.0	17.0	0.3	1.5	21.5	1.2	1.160	540	3,500	840
	25	7	6.6	1.2	1.0	20.4	0.3	1.7	25.3	1.3	0.734	520	3,500	1,170
	35	7	7.9	1.2	1.0	22.6	0.3	1.8	27.7	1.4	0.529	450	3,500	1,450
	50	19	9.1	1.4	1.0	26.2	0.3	1.9	31.5	1.6	0.391	440	3,500	1,870
	70	19	11.0	1.4	1.2	30.4	0.4	2.1	36.5	1.8	0.270	380	3,500	2,620
	95	19	12.9	1.6	1.2	35.0	0.4	2.3	41.5	2.0	0.195	370	3,500	3,410
	120	37	14.5	1.6	1.4	38.6	0.4	2.4	45.3	2.1	0.154	330	3,500	4,130
	150	37	16.2	1.8	1.4	42.2	0.4	2.6	49.3	2.3	0.126	330	3,500	4,900
	185	37	18.0	2.0	1.4	46.8	0.4	2.7	54.1	2.5	0.100	330	3,500	5,950
	240	61	20.6	2.2	1.6	53.4	0.4	3.0	61.3	2.8	0.0762	320	3,500	7,670
	300	61	23.1	2.4	1.6	59.0	0.4	3.2	67.3	3.0	0.0607	310	3,500	9,310
2C+E	1.5	7	1.7	1.0	1.0	10.8	0.3	1.3	14.9	0.9	12.2	1,320	3,500	370
2C+E	2.5	7	2.2	1.0	1.0	11.7	0.3	1.3	15.8	0.9	7.56	1,110	3,500	430
2C+E	4	7	2.7	1.0	1.0	12.8	0.3	1.4	17.1	1.0	4.70	940	3,500	520
2C+E	6	7	3.3	1.0	1.0	14.1	0.3	1.4	18.4	1.0	3.110	800	3,500	630
2C+E	10	7	4.2	1.0	1.0	16.0	0.3	1.5	20.5	1.1	1.840	650	3,500	800
2C+E	16	7	5.3	1.0	1.0	18.2	0.3	1.6	22.9	1.2	1.160	540	3,500	1,050
2C	25	7	6.6	1.2	1.0	21.2	0.3	1.7	26.1	1.3	0.734	520	3,500	1,360
Earth	16	7	5.3	1.0							1.160			
2C	35	7	7.9	1.2	1.0	23.8	0.3	1.8	28.9	1.5	0.529	450	3,500	1,750
Earth	25	7	6.6	1.2							0.734			
2C	50	19	9.1	1.4	1.0	27.0	0.3	1.9	32.3	1.6	0.391	440	3,500	2,150
Earth	25	7	6.6	1.2							0.734			
2C	70	19	11.0	1.4	1.2	31.2	0.4	2.1	37.3	1.8	0.270	380	3,500	2,990
Earth	35	7	7.9	1.2							0.529			
2C	95	19	12.9	1.6	1.2	36.0	0.4	2.3	42.5	2.0	0.195	370	3,500	3,910
Earth	50	19	9.1	1.4							0.391			
2C	120	37	14.5	1.6	1.4	39.9	0.4	2.5	46.8	2.2	0.154	330	3,500	4,850
Earth	70	19	11.0	1.4							0.270			
2C	150	37	16.2	1.8	1.4	44.0	0.4	2.6	51.1	2.3	0.126	330	3,500	5,880
Earth	95	19	12.9	1.6							0.195			
2C	185	37	18.0	2.0	1.4	48.0	0.4	2.8	55.5	2.5	0.100	330	3,500	6,920
Earth	95	19	12.9	1.6							0.195			
2C	240	61	20.6	2.2	1.6	54.6	0.4	3.1	62.7	2.8	0.0762	320	3,500	8,860
Earth	120	37	14.5	1.6							0.154			

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV BFOU, 0.6/1kV BFCU, 0.6/1kV BFBU / Class2 Conductor

No. of Cores	Conductor			Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Conductor Resistance (at 20℃) (Max.)	Insulation Resistance (at 20℃) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.						Nominal	Tolerance				
No.	mm²	EA	mm	mm	mm	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
3	1.5	7	1.7	1.0	1.0	10.8	0.3	1.3	14.9	0.9	12.2	1,320	3,500	370
	2.5	7	2.2	1.0	1.0	11.7	0.3	1.3	15.8	0.9	7.56	1,110	3,500	430
	4	7	2.7	1.0	1.0	12.8	0.3	1.4	17.1	1.0	4.70	940	3,500	520
	6	7	3.3	1.0	1.0	14.1	0.3	1.4	18.4	1.0	3.110	800	3,500	630
	10	7	4.2	1.0	1.0	16.0	0.3	1.5	20.5	1.1	1.840	650	3,500	800
	16	7	5.3	1.0	1.0	18.2	0.3	1.6	22.9	1.2	1.160	540	3,500	1,050
	25	7	6.6	1.2	1.0	21.8	0.3	1.7	26.7	1.4	0.734	520	3,500	1,470
	35	7	7.9	1.2	1.0	24.2	0.3	1.8	29.3	1.5	0.529	450	3,500	1,850
	50	19	9.1	1.4	1.2	28.9	0.3	2.0	34.4	1.7	0.391	440	3,500	2,510
	70	19	11.0	1.4	1.2	32.5	0.4	2.2	38.8	1.9	0.270	380	3,500	3,380
	95	19	12.9	1.6	1.2	37.5	0.4	2.4	44.2	2.1	0.195	370	3,500	4,440
	120	37	14.5	1.6	1.4	41.3	0.4	2.5	48.2	2.2	0.154	330	3,500	5,390
	150	37	16.2	1.8	1.4	45.2	0.4	2.7	52.5	2.4	0.126	330	3,500	6,440
	185	37	18.0	2.0	1.6	50.8	0.4	2.9	58.5	2.6	0.100	330	3,500	8,010
	240	61	20.6	2.2	1.6	57.2	0.4	3.2	65.5	2.9	0.0762	320	3,500	10,200
	300	61	23.1	2.4	1.6	63.3	0.4	3.4	72.0	3.2	0.0607	310	3,500	12,440
3C+E	1.5	7	1.7	1.0	1.0	11.9	0.3	1.3	16.0	0.9	12.2	1,320	3,500	430
3C+E	2.5	7	2.2	1.0	1.0	12.9	0.3	1.4	17.2	1.0	7.56	1,110	3,500	510
3C+E	4	7	2.7	1.0	1.0	14.1	0.3	1.4	18.4	1.0	4.70	940	3,500	610
3C+E	6	7	3.3	1.0	1.0	15.5	0.3	1.5	20.0	1.1	3.110	800	3,500	750
3C+E	10	7	4.2	1.0	1.0	17.7	0.3	1.6	22.4	1.2	1.840	650	3,500	980
3C+E	16	7	5.3	1.0	1.0	20.1	0.3	1.7	25.0	1.3	1.160	540	3,500	1,290
3C	25	7	6.6	1.2	1.0	23.7	0.3	1.8	28.8	1.5	0.734	520	3,500	1,730
Earth	16	7	5.3	1.0							1.160			
3C	35	7	7.9	1.2	1.0	26.5	0.3	1.9	31.8	1.6	0.529	450	3,500	2,220
Earth	25	7	6.6	1.2							0.734			
3C	50	19	9.1	1.4	1.2	31.0	0.4	2.1	37.1	1.8	0.391	440	3,500	2,970
Earth	25	7	6.6	1.2							0.734			
3C	70	19	11.0	1.4	1.2	34.9	0.4	2.3	41.4	2.0	0.270	380	3,500	3,870
Earth	35	7	7.9	1.2							0.529			
3C	95	19	12.9	1.6	1.4	40.7	0.4	2.5	47.6	2.2	0.195	370	3,500	5,160
Earth	50	19	9.1	1.4							0.391			
3C	120	37	14.5	1.6	1.4	44.6	0.4	2.7	51.9	2.4	0.154	330	3,500	6,310
Earth	70	19	11.0	1.4							0.270			
3C	150	37	16.2	1.8	1.6	49.7	0.4	2.9	57.4	2.6	0.126	330	3,500	7,770
Earth	95	19	12.9	1.6							0.195			
3C	185	37	18.0	2.0	1.6	54.5	0.4	3.0	62.4	2.8	0.100	330	3,500	9,220
Earth	95	19	12.9	1.6							0.195			
3C	240	61	20.6	2.2	1.6	61.2	0.4	3.3	69.7	3.1	0.0762	320	3,500	11,680
Earth	120	37	14.5	1.6							0.154			
4	1.5	7	1.7	1.0	1.0	11.9	0.3	1.3	16.0	0.9	12.2	1,320	3,500	430
	2.5	7	2.2	1.0	1.0	12.9	0.3	1.4	17.2	1.0	7.56	1,110	3,500	510
	4	7	2.7	1.0	1.0	14.1	0.3	1.4	18.4	1.0	4.70	940	3,500	610
	6	7	3.3	1.0	1.0	15.5	0.3	1.5	20.0	1.1	3.110	800	3,500	750
	10	7	4.2	1.0	1.0	17.7	0.3	1.6	22.4	1.2	1.840	650	3,500	980
	16	7	5.3	1.0	1.0	20.1	0.3	1.7	25.0	1.3	1.160	540	3,500	1,290
	25	7	6.6	1.2	1.0	24.2	0.3	1.8	29.3	1.5	0.734	520	3,500	1,830
	35	7	7.9	1.2	1.0	26.9	0.3	1.9	32.2	1.6	0.529	450	3,500	2,320
	50	19	9.1	1.4	1.2	32.0	0.4	2.1	38.1	1.8	0.391	440	3,500	3,230
	70	19	11.0	1.4	1.2	36.1	0.4	2.3	42.6	2.0	0.270	380	3,500	4,240
	95	19	12.9	1.6	1.4	42.1	0.4	2.6	49.2	2.3	0.195	370	3,500	5,700
	120	37	14.5	1.6	1.4	45.9	0.4	2.7	53.2	2.4	0.154	330	3,500	6,850
	150	37	16.2	1.8	1.6	50.9	0.4	2.9	58.6	2.6	0.126	330	3,500	8,310
	185	37	18.0	2.0	1.6	56.4	0.4	3.1	64.5	2.9	0.100	330	3,500	10,200
	240	61	20.6	2.2	1.6	63.7	0.4	3.4	72.4	3.2	0.0762	320	3,500	13,030
	300	61	23.1	2.4	1.8	70.8	0.4	3.7	80.1	3.5	0.0607	310	3,500	16,060

LV Power & Lighting Cable

0.6/1kV BFOU, 0.6/1kV BFCU, 0.6/1kV BFBU / Class2 Conductor

No. of Cores	Conductor			Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Conductor Resistance (at 20℃) (Max.)	Insulation Resistance (at 20℃) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.						Nominal	Toler-ance				
No.	mm^2	EA	mm	mm	mm	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
4C+E	1.5	7	1.7	1.0	1.0	13.1	0.3	1.4	17.4	1.0	12.2	1,320	3,500	500
4C+E	2.5	7	2.2	1.0	1.0	14.2	0.3	1.4	18.5	1.0	7.56	1,110	3,500	590
4C+E	4	7	2.7	1.0	1.0	15.5	0.3	1.5	20.0	1.1	4.70	940	3,500	720
4C+E	6	7	3.3	1.0	1.0	17.1	0.3	1.5	21.6	1.2	3.110	800	3,500	880
4C+E	10	7	4.2	1.0	1.0	19.6	0.3	1.6	24.3	1.3	1.840	650	3,500	1,160
4C+E	16	7	5.3	1.0	1.0	22.3	0.3	1.7	27.2	1.4	1.160	540	3,500	1,540
4C	25	7	6.6	1.2	1.0	26.3	0.3	1.9	31.6	1.6	0.734	520	3,500	2,110
Earth	16	7	5.3	1.0							1.160			
4C	35	7	7.9	1.2	1.2	30.3	0.4	2.1	36.4	1.8	0.529	450	3,500	2,910
Earth	25	7	6.6	1.2							0.734			
4C	50	19	9.1	1.4	1.2	34.5	0.4	2.2	40.8	1.9	0.391	440	3,500	3,640
Earth	25	7	6.6	1.2							0.734			
4C	70	19	11.0	1.4	1.4	39.3	0.4	2.4	46.0	2.1	0.270	380	3,500	4,840
Earth	35	7	7.9	1.2							0.529			
4C	95	19	12.9	1.6	1.4	45.4	0.4	2.7	52.7	2.4	0.195	370	3,500	6,420
Earth	50	19	9.1	1.4							0.391			
4C	120	37	14.5	1.6	1.6	50.3	0.4	2.9	58.0	2.6	0.154	330	3,500	7,950
Earth	70	19	11.0	1.4							0.270			
4C	150	37	16.2	1.8	1.6	55.4	0.4	3.1	63.5	2.8	0.126	330	3,500	9,630
Earth	95	19	12.9	1.6							0.195			
4C	185	37	18.0	2.0	1.6	60.8	0.4	3.3	69.3	3.1	0.100	330	3,500	11,540
Earth	95	19	12.9	1.6							0.195			
4C	240	61	20.6	2.2	1.8	68.8	0.4	3.6	77.9	3.4	0.0762	320	3,500	14,760
Earth	120	37	14.5	1.6							0.154			
	1.5	7	1.7	1.0	1.0	13.1	0.3	1.4	17.4	1.0	12.2	1,320	3,500	500
	2.5	7	2.2	1.0	1.0	14.2	0.3	1.4	18.5	1.0	7.56	1,110	3,500	590
	4	7	2.7	1.0	1.0	15.5	0.3	1.5	20.0	1.1	4.70	940	3,500	720
	6	7	3.3	1.0	1.0	17.1	0.3	1.5	21.6	1.2	3.110	800	3,500	880
	10	7	4.2	1.0	1.0	19.6	0.3	1.6	24.3	1.3	1.840	650	3,500	1,160
	16	7	5.3	1.0	1.0	22.3	0.3	1.7	27.2	1.4	1.160	540	3,500	1,540
	25	7	6.6	1.2	1.0	26.8	0.3	1.9	32.1	1.6	0.734	520	3,500	2,220
5	35	7	7.9	1.2	1.2	30.6	0.4	2.1	36.7	1.8	0.529	450	3,500	3,010
	50	19	9.1	1.4	1.2	35.5	0.4	2.3	42.0	2.0	0.391	440	3,500	3,930
	70	19	11.0	1.4	1.4	40.5	0.4	2.5	47.4	2.2	0.270	380	3,500	5,240
	95	19	12.9	1.6	1.4	46.7	0.4	2.7	54.0	2.5	0.195	370	3,500	6,930
	120	37	14.5	1.6	1.6	51.6	0.4	2.9	59.3	2.7	0.154	330	3,500	8,500
	150	37	16.2	1.8	1.6	56.5	0.4	3.1	64.6	2.9	0.126	330	3,500	10,170
	185	37	18.0	2.0	1.6	62.7	0.4	3.4	71.4	3.2	0.100	330	3,500	12,540
	240	61	20.6	2.2	1.8	71.2	0.4	3.7	80.5	3.5	0.0762	320	3,500	16,130

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV BFOU, 0.6/1kV BFCU, 0.6/1kV BFBU / Class2 Conductor

No. of Cores	Conductor			Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Conductor Resistance (at 20℃) (Max.)	Insulation Resistance (at 20℃) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.						Nominal	Toler-ance				
No.	mm²	EA	mm	mm	mm	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
2	1.0	7	1.4	1.0	1.0	9.6	0.3	1.2	13.5	0.8	18.2	1,490	3,500	280
5	1.0	7	1.4	1.0	1.0	12.3	0.3	1.3	16.4	1.0	18.2	1,490	3,500	420
7	1.0	7	1.4	1.0	1.0	13.4	0.3	1.4	17.7	1.0	18.2	1,490	3,500	500
8	1.0	7	1.4	1.0	1.0	14.6	0.3	1.4	18.9	1.1	18.2	1,490	3,500	550
9	1.0	7	1.4	1.0	1.0	15.7	0.3	1.5	20.2	1.1	18.2	1,490	3,500	610
10	1.0	7	1.4	1.0	1.0	17.2	0.3	1.5	21.7	1.2	18.2	1,490	3,500	670
12	1.0	7	1.4	1.0	1.0	17.8	0.3	1.6	22.5	1.2	18.2	1,490	3,500	750
14	1.0	7	1.4	1.0	1.0	18.8	0.3	1.6	23.5	1.2	18.2	1,490	3,500	820
16	1.0	7	1.4	1.0	1.0	19.9	0.3	1.6	24.6	1.3	18.2	1,490	3,500	900
19	1.0	7	1.4	1.0	1.0	21.0	0.3	1.7	25.9	1.3	18.2	1,490	3,500	1,010
24	1.0	7	1.4	1.0	1.0	24.8	0.3	1.8	29.9	1.5	18.2	1,490	3,500	1,240
27	1.0	7	1.4	1.0	1.0	25.4	0.3	1.9	30.7	1.5	18.2	1,490	3,500	1,350
30	1.0	7	1.4	1.0	1.0	26.4	0.3	1.9	31.7	1.6	18.2	1,490	3,500	1,450
37	1.0	7	1.4	1.0	1.2	29.4	0.3	2.0	34.9	1.7	18.2	1,490	3,500	1,790
44	1.0	7	1.4	1.0	1.2	33.2	0.4	2.2	39.5	1.9	18.2	1,490	3,500	2,200
2	1.5	7	1.7	1.0	1.0	10.2	0.3	1.3	14.3	0.9	12.2	1,320	3,500	330
5	1.5	7	1.7	1.0	1.0	13.1	0.3	1.4	17.4	1.0	12.2	1,320	3,500	500
7	1.5	7	1.7	1.0	1.0	14.3	0.3	1.4	18.6	1.0	12.2	1,320	3,500	570
8	1.5	7	1.7	1.0	1.0	15.6	0.3	1.5	20.1	1.1	12.2	1,320	3,500	640
9	1.5	7	1.7	1.0	1.0	16.8	0.3	1.5	21.3	1.2	12.2	1,320	3,500	700
10	1.5	7	1.7	1.0	1.0	18.4	0.3	1.6	23.1	1.2	12.2	1,320	3,500	780
12	1.5	7	1.7	1.0	1.0	19.0	0.3	1.6	23.7	1.2	12.2	1,320	3,500	850
14	1.5	7	1.7	1.0	1.0	20.1	0.3	1.7	25.0	1.3	12.2	1,320	3,500	950
16	1.5	7	1.7	1.0	1.0	21.3	0.3	1.7	26.2	1.3	12.2	1,320	3,500	1,050
19	1.5	7	1.7	1.0	1.0	22.5	0.3	1.8	27.6	1.4	12.2	1,320	3,500	1,180
24	1.5	7	1.7	1.0	1.0	26.6	0.3	1.9	31.9	1.6	12.2	1,320	3,500	1,460
27	1.5	7	1.7	1.0	1.2	28.0	0.3	2.0	33.5	1.6	12.2	1,320	3,500	1,670
30	1.5	7	1.7	1.0	1.2	29.1	0.3	2.0	34.6	1.7	12.2	1,320	3,500	1,800
37	1.5	7	1.7	1.0	1.2	31.5	0.4	2.1	37.6	1.8	12.2	1,320	3,500	2,190
44	1.5	7	1.7	1.0	1.2	35.6	0.4	2.3	42.1	2.0	12.2	1,320	3,500	2,580
2	2.5	7	2.2	1.0	1.0	11.0	0.3	1.3	15.1	0.9	7.56	1,110	3,500	380
5	2.5	7	2.2	1.0	1.0	14.2	0.3	1.4	18.5	1.0	7.56	1,110	3,500	590
7	2.5	7	2.2	1.0	1.0	15.5	0.3	1.5	20.0	1.1	7.56	1,110	3,500	680
8	2.5	7	2.2	1.0	1.0	15.5	0.3	1.5	20.0	1.1	7.56	1,110	3,500	680
9	2.5	7	2.2	1.0	1.0	18.3	0.3	1.6	23.0	1.2	7.56	1,110	3,500	840
10	2.5	7	2.2	1.0	1.0	20.0	0.3	1.7	24.9	1.3	7.56	1,110	3,500	940
12	2.5	7	2.2	1.0	1.0	20.7	0.3	1.7	25.6	1.3	7.56	1,110	3,500	1,040
14	2.5	7	2.2	1.0	1.0	21.9	0.3	1.7	26.8	1.4	7.56	1,110	3,500	1,150
16	2.5	7	2.2	1.0	1.0	23.2	0.3	1.8	28.3	1.4	7.56	1,110	3,500	1,280
19	2.5	7	2.2	1.0	1.0	24.5	0.3	1.8	29.6	1.5	7.56	1,110	3,500	1,440
24	2.5	7	2.2	1.0	1.2	29.8	0.3	2.0	35.3	1.7	7.56	1,110	3,500	1,890
27	2.5	7	2.2	1.0	1.2	30.5	0.4	2.1	36.6	1.8	7.56	1,110	3,500	2,140
30	2.5	7	2.2	1.0	1.2	31.7	0.4	2.1	37.8	1.8	7.56	1,110	3,500	2,310
37	2.5	7	2.2	1.0	1.2	34.3	0.4	2.2	40.6	1.9	7.56	1,110	3,500	2,710
44	2.5	7	2.2	1.0	1.4	39.2	0.4	2.4	45.9	2.1	7.56	1,110	3,500	3,250
2	4	7	2.7	1.0	1.0	12.0	0.3	1.3	16.1	0.9	4.70	940	3,500	450
5	4	7	2.7	1.0	1.0	15.5	0.3	1.5	20.0	1.1	4.70	940	3,500	720
7	4	7	2.7	1.0	1.0	17.0	0.3	1.5	21.5	1.2	4.70	940	3,500	830
8	4	7	2.7	1.0	1.0	18.5	0.3	1.6	23.2	1.2	4.70	940	3,500	930
9	4	7	2.7	1.0	1.0	20.1	0.3	1.7	25.0	1.3	4.70	940	3,500	1,040
10	4	7	2.7	1.0	1.0	22.0	0.3	1.7	26.9	1.4	4.70	940	3,500	1,150
12	4	7	2.7	1.0	1.0	22.8	0.3	1.8	27.9	1.4	4.70	940	3,500	1,300
14	4	7	2.7	1.0	1.0	24.1	0.3	1.8	29.2	1.5	4.70	940	3,500	1,450
16	4	7	2.7	1.0	1.0	25.5	0.3	1.9	30.8	1.5	4.70	940	3,500	1,620
19	4	7	2.7	1.0	1.0	27.0	0.3	1.9	32.3	1.6	4.70	940	3,500	1,830
24	4	7	2.7	1.0	1.2	32.8	0.4	2.2	39.1	1.9	4.70	940	3,500	2,500
27	4	7	2.7	1.0	1.2	33.6	0.4	2.2	39.9	1.9	4.70	940	3,500	2,700
30	4	7	2.7	1.0	1.2	34.9	0.4	2.3	41.4	2.0	4.70	940	3,500	2,940
37	4	7	2.7	1.0	1.2	37.8	0.4	2.4	44.5	2.1	4.70	940	3,500	3,460
44	4	7	2.7	1.0	1.4	43.2	0.4	2.6	50.3	2.3	4.70	940	3,500	4,160

LV Power & Lighting Cable

0.6/1kV FX-BFOU, 0.6/1kV FX-BFBU / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
1	1.5	1.8	1.0	1.0	6.1	0.3	1.1	9.8	0.7	170
	2.5	2.4	1.0	1.0	6.5	0.3	1.1	10.2	0.7	190
	4	3.0	1.0	1.0	7.1	0.3	1.1	10.8	0.7	220
	6	3.9	1.0	1.0	7.6	0.3	1.2	11.5	0.8	250
	10	5.1	1.0	1.0	8.6	0.3	1.2	12.5	0.8	320
	16	6.3	1.0	1.0	10.1	0.3	1.2	14.0	0.9	420
	25	7.8	1.2	1.0	11.9	0.3	1.3	16.0	0.9	560
	35	9.2	1.2	1.0	13.1	0.3	1.4	17.4	1.0	690
	50	11.0	1.4	1.0	15.2	0.3	1.4	19.5	1.1	900
	70	13.1	1.4	1.0	17.1	0.3	1.5	21.6	1.2	1,150
	95	15.1	1.6	1.0	19.2	0.3	1.6	23.9	1.3	1,440
	120	17.0	1.6	1.0	21.0	0.3	1.7	25.9	1.3	1,740
	150	19.0	1.8	1.0	23.2	0.3	1.8	28.3	1.4	2,110
	185	21.0	2.0	1.0	25.1	0.3	1.8	30.2	1.5	2,480
	240	24.0	2.2	1.2	29.0	0.3	2.0	34.5	1.7	3,240
	300	27.0	2.4	1.2	31.9	0.4	2.1	38.0	1.8	4,060

0.6/1kV FX-BFOU, 0.6/1kV FX-BFCU, 0.6/1kV FX-BFBU / Class5 Conductor

2	1.5	1.8	1.0	1.0	10.2	0.3	1.3	14.3	0.9	330
	2.5	2.4	1.0	1.0	11.0	0.3	1.3	15.1	0.9	380
	4	3.0	1.0	1.0	12.2	0.3	1.3	16.3	1.0	450
	6	3.9	1.0	1.0	13.2	0.3	1.4	17.5	1.0	540
	10	5.1	1.0	1.0	15.2	0.3	1.5	19.7	1.1	660
	16	6.3	1.0	1.0	18.2	0.3	1.6	22.9	1.2	890
	25	7.8	1.2	1.0	21.8	0.3	1.7	26.7	1.4	1,220
	35	9.2	1.2	1.0	24.2	0.3	1.8	29.3	1.5	1,510
	50	11.0	1.4	1.2	29.2	0.3	2.0	34.7	1.7	2,150
	70	13.1	1.4	1.2	33.0	0.4	2.2	39.3	1.9	2,870
	95	15.1	1.6	1.2	37.2	0.4	2.3	43.7	2.0	3,580
	120	17.0	1.6	1.4	41.2	0.4	2.5	48.1	2.2	4,420
	150	19.0	1.8	1.4	45.6	0.4	2.7	52.9	2.4	5,370
	185	21.0	2.0	1.6	50.0	0.4	2.8	57.5	2.6	6,480
	240	24.0	2.2	1.6	56.2	0.4	3.1	64.3	2.9	8,210
	300	27.0	2.4	1.6	62.0	0.4	3.3	70.5	3.1	10,060
2C+E	1.5	1.8	1.0	1.0	10.8	0.3	1.3	14.9	0.9	370
2C+E	2.5	2.4	1.0	1.0	11.9	0.3	1.3	16.0	0.9	440
2C+E	4	3.0	1.0	1.0	13.0	0.3	1.4	17.3	1.0	530
2C+E	6	3.9	1.0	1.0	14.3	0.3	1.4	18.6	1.0	630
2C+E	10	5.1	1.0	1.0	16.2	0.3	1.5	20.7	1.1	800
2C+E	16	6.3	1.0	1.0	19.5	0.3	1.6	24.2	1.3	1,090
2C	25	7.8	1.2	1.0	22.6	0.3	1.8	27.7	1.4	1,420
Earth	16	6.3	1.0							
2C	35	9.2	1.2	1.0	25.5	0.3	1.9	30.8	1.5	1,820
Earth	25	7.8	1.2							
2C	50	11.0	1.4	1.2	30.0	0.3	2.0	35.5	1.7	2,420
Earth	25	7.8	1.2							
2C	70	13.1	1.4	1.2	33.8	0.4	2.2	40.1	1.9	3,230
Earth	35	9.2	1.2							
2C	95	15.1	1.6	1.2	38.3	0.4	2.4	45.0	2.1	4,130
Earth	50	11.0	1.4							
2C	120	17.0	1.6	1.4	42.6	0.4	2.6	49.7	2.3	5,180
Earth	70	13.1	1.4							
2C	150	19.0	1.8	1.4	47.4	0.4	2.7	54.7	2.5	6,340
Earth	95	15.1	1.6							
2C	185	21.0	2.0	1.6	51.3	0.4	2.9	59.0	2.7	7,440
Earth	95	15.1	1.6							
2C	240	24.0	2.2	1.6	57.5	0.4	3.2	65.8	2.9	9,400
Earth	120	17.0	1.6							

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV FX-BFOU, 0.6/1kV FX-BFCU, 0.6/1kV FX-BFBU / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
3	1.5	1.8	1.0	1.0	10.8	0.3	1.3	14.9	0.9	370
	2.5	2.4	1.0	1.0	11.7	0.3	1.3	15.8	0.9	430
	4	3.0	1.0	1.0	13.0	0.3	1.4	17.3	1.0	530
	6	3.9	1.0	1.0	14.1	0.3	1.4	18.4	1.0	620
	10	5.1	1.0	1.0	16.2	0.3	1.5	20.7	1.1	800
	16	6.3	1.0	1.0	19.5	0.3	1.6	24.2	1.3	1,090
	25	7.8	1.2	1.0	23.3	0.3	1.8	28.4	1.4	1,530
	35	9.2	1.2	1.0	25.9	0.3	1.9	31.2	1.5	1,920
	50	11.0	1.4	1.2	31.2	0.4	2.1	37.3	1.8	2,820
	70	13.1	1.4	1.2	35.3	0.4	2.3	41.8	2.0	3,670
	95	15.1	1.6	1.4	40.3	0.4	2.5	47.2	2.2	4,720
	120	17.0	1.6	1.4	44.1	0.4	2.6	51.2	2.3	5,710
	150	19.0	1.8	1.4	48.0	0.4	2.8	55.5	2.5	6,740
	185	21.0	2.0	1.6	53.6	0.4	3.0	61.5	2.8	8,460
	240	24.0	2.2	1.6	60.3	0.4	3.3	68.8	3.1	10,780
	300	27.0	2.4	1.8	66.9	0.4	3.5	75.8	3.3	13,440
3C+E	1.5	1.8	1.0	1.0	11.9	0.3	1.3	16.0	0.9	430
3C+E	2.5	2.4	1.0	1.0	13.1	0.3	1.4	17.4	1.0	520
3C+E	4	3.0	1.0	1.0	14.3	0.3	1.4	18.6	1.0	620
3C+E	6	3.9	1.0	1.0	15.8	0.3	1.5	20.3	1.1	760
3C+E	10	5.1	1.0	1.0	17.9	0.3	1.6	22.6	1.2	970
3C+E	16	6.3	1.0	1.0	21.6	0.3	1.7	26.5	1.4	1,340
3C	25	7.8	1.2	1.0	25.3	0.3	1.9	30.6	1.5	1,790
Earth	16	6.3	1.0							
3C	35	9.2	1.2	1.2	29.2	0.3	2.0	34.7	1.7	2,400
Earth	25	7.8	1.2							
3C	50	11.0	1.4	1.2	33.5	0.4	2.2	39.8	1.9	3,220
Earth	25	7.8	1.2							
3C	70	13.1	1.4	1.2	37.8	0.4	2.4	44.5	2.1	4,180
Earth	35	9.2	1.2							
3C	95	15.1	1.6	1.4	43.3	0.4	2.6	50.4	2.3	5,440
Earth	50	11.0	1.4							
3C	120	17.0	1.6	1.4	47.7	0.4	2.8	55.2	2.5	6,710
Earth	70	13.1	1.4							
3C	150	19.0	1.8	1.6	53.6	0.4	3.0	61.5	2.8	8,430
Earth	95	15.1	1.6							
3C	185	21.0	2.0	1.6	57.5	0.4	3.1	65.6	2.9	9,730
Earth	95	15.1	1.6							
3C	240	24.0	2.2	1.8	64.9	0.4	3.5	73.8	3.3	12,540
Earth	120	17.0	1.6							

LV Power & Lighting Cable

0.6/1kV FX-BFOU, 0.6/1kV FX-BFCU, 0.6/1kV FX-BFBU / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
4	1.5	1.8	1.0	1.0	11.9	0.3	1.3	16.0	0.9	430
	2.5	2.4	1.0	1.0	12.9	0.3	1.4	17.2	1.0	510
	4	3.0	1.0	1.0	14.3	0.3	1.4	18.6	1.0	620
	6	3.9	1.0	1.0	15.5	0.3	1.5	20.0	1.1	750
	10	5.1	1.0	1.0	17.9	0.3	1.6	22.6	1.2	970
	16	6.3	1.0	1.0	21.6	0.3	1.7	26.5	1.4	1,340
	25	7.8	1.2	1.0	25.9	0.3	1.9	31.2	1.5	1,900
	35	9.2	1.2	1.2	29.6	0.3	2.0	35.1	1.7	2,510
	50	11.0	1.4	1.2	34.7	0.4	2.2	41.0	1.9	3,520
	70	13.1	1.4	1.4	39.7	0.4	2.4	46.4	2.2	4,690
	95	15.1	1.6	1.4	44.7	0.4	2.6	51.8	2.4	5,930
	120	17.0	1.6	1.6	49.7	0.4	2.8	57.2	2.6	7,410
	150	19.0	1.8	1.6	55.0	0.4	3.0	62.9	2.8	9,040
	185	21.0	2.0	1.6	59.6	0.4	3.2	67.9	3.0	10,750
	240	24.0	2.2	1.8	67.4	0.4	3.6	76.5	3.4	13,920
	300	27.0	2.4	1.8	74.4	0.4	3.8	83.9	3.7	17,180
4C+E	1.5	1.8	1.0	1.0	13.1	0.3	1.4	17.4	1.0	500
4C+E	2.5	2.4	1.0	1.0	14.4	0.3	1.4	18.7	1.0	600
4C+E	4	3.0	1.0	1.0	15.8	0.3	1.5	20.3	1.1	740
4C+E	6	3.9	1.0	1.0	17.4	0.3	1.5	21.9	1.2	900
4C+E	10	5.1	1.0	1.0	19.8	0.3	1.6	24.5	1.3	1,150
4C+E	16	6.3	1.0	1.0	23.9	0.3	1.8	29.0	1.5	1,620
4C	25	7.8	1.2	1.2	28.9	0.3	2.0	34.4	1.7	2,290
Earth	16	6.3	1.0							
4C	35	9.2	1.2	1.2	32.4	0.4	2.2	38.7	1.8	3,040
Earth	25	7.8	1.2							
4C	50	11.0	1.4	1.2	37.3	0.4	2.3	43.8	2.1	3,960
Earth	25	7.8	1.2							
4C	70	13.1	1.4	1.4	42.6	0.4	2.5	49.5	2.3	5,258
Earth	35	9.2	1.2							
4C	95	15.1	1.6	1.4	48.3	0.4	2.8	55.8	2.5	6,760
Earth	50	11.0	1.4							
4C	120	17.0	1.6	1.6	53.8	0.4	3.0	61.7	2.8	8,510
Earth	70	13.1	1.4							
4C	150	19.0	1.8	1.6	59.7	0.4	3.2	68.0	3.0	10,450
Earth	95	15.1	1.6							
4C	185	21.0	2.0	1.6	64.2	0.4	3.4	72.9	3.2	12,180
Earth	95	15.1	1.6							
4C	240	24.0	2.2	1.8	72.5	0.4	3.8	82.0	3.6	15,730
Earth	120	17.0	1.6							

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV FX-BFOU, 0.6/1kV FX-BFCU, 0.6/1kV FX-BFBU / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
5	1.0	1.5	1.0	1.0	12.3	0.3	1.3	16.4	1.0	430
7	1.0	1.5	1.0	1.0	13.4	0.3	1.4	17.7	1.0	510
9	1.0	1.5	1.0	1.0	15.7	0.3	1.5	20.2	1.1	640
12	1.0	1.5	1.0	1.0	17.8	0.3	1.6	22.5	1.2	780
14	1.0	1.5	1.0	1.0	18.8	0.3	1.6	23.5	1.2	860
16	1.0	1.5	1.0	1.0	19.9	0.3	1.6	24.6	1.3	940
19	1.0	1.5	1.0	1.0	21.0	0.3	1.7	25.9	1.3	1,060
24	1.0	1.5	1.0	1.0	24.8	0.3	1.8	29.9	1.5	1,340
27	1.0	1.5	1.0	1.0	25.4	0.3	1.9	30.7	1.5	1,440
30	1.0	1.5	1.0	1.0	26.4	0.3	1.9	31.7	1.6	1,540
37	1.0	1.5	1.0	1.2	29.4	0.3	2.0	34.9	1.7	1,910
44	1.0	1.5	1.0	1.2	33.2	0.4	2.2	39.5	1.9	2,400
5	1.5	1.8	1.0	1.0	13.1	0.3	1.4	17.4	1.0	490
7	1.5	1.8	1.0	1.0	14.3	0.3	1.4	18.6	1.0	570
9	1.5	1.8	1.0	1.0	16.8	0.3	1.5	21.3	1.2	720
12	1.5	1.8	1.0	1.0	19.0	0.3	1.6	23.7	1.2	890
14	1.5	1.8	1.0	1.0	20.1	0.3	1.7	25.0	1.3	1,000
16	1.5	1.8	1.0	1.0	21.3	0.3	1.7	26.2	1.3	1,100
19	1.5	1.8	1.0	1.0	22.5	0.3	1.8	27.6	1.4	1,230
24	1.5	1.8	1.0	1.0	26.6	0.3	1.9	31.9	1.6	1,570
27	1.5	1.8	1.0	1.2	28.0	0.3	2.0	33.5	1.6	1,780
30	1.5	1.8	1.0	1.2	29.1	0.3	2.0	34.6	1.7	1,910
37	1.5	1.8	1.0	1.2	31.5	0.4	2.1	37.6	1.8	2,320
44	1.5	1.8	1.0	1.2	35.6	0.4	2.3	42.1	2.0	2,810
5	2.5	2.4	1.0	1.0	14.2	0.3	1.4	18.5	1.0	570
7	2.5	2.4	1.0	1.0	15.5	0.3	1.5	20.0	1.1	690
9	2.5	2.4	1.0	1.0	18.3	0.3	1.6	23.0	1.2	880
12	2.5	2.4	1.0	1.0	20.7	0.3	1.7	25.6	1.3	1,090
14	2.5	2.4	1.0	1.0	21.9	0.3	1.7	26.8	1.4	1,210
16	2.5	2.4	1.0	1.0	23.2	0.3	1.8	28.3	1.4	1,350
19	2.5	2.4	1.0	1.0	24.5	0.3	1.8	29.6	1.5	1,510
24	2.5	2.4	1.0	1.2	29.8	0.3	2.0	35.3	1.7	2,050
27	2.5	2.4	1.0	1.2	30.5	0.4	2.1	36.6	1.8	2,290
30	2.5	2.4	1.0	1.2	31.7	0.4	2.1	37.8	1.8	2,460
37	2.5	2.4	1.0	1.2	34.3	0.4	2.2	40.6	1.9	2,880
44	2.5	2.4	1.0	1.4	39.2	0.4	2.4	45.9	2.1	3,560
5	4	3.0	1.0	1.0	15.8	0.3	1.5	20.3	1.1	720
7	4	3.0	1.0	1.0	17.3	0.3	1.5	21.8	1.2	870
9	4	3.0	1.0	1.0	20.4	0.3	1.7	25.3	1.3	1,120
12	4	3.0	1.0	1.0	23.2	0.3	1.8	28.3	1.4	1,400
14	4	3.0	1.0	1.0	24.5	0.3	1.8	29.6	1.5	1,560
16	4	3.0	1.0	1.0	26.0	0.3	1.9	31.3	1.6	1,740
19	4	3.0	1.0	1.2	28.3	0.3	2.0	33.8	1.7	2,080
24	4	3.0	1.0	1.2	33.4	0.4	2.2	39.7	1.9	2,760
27	4	3.0	1.0	1.2	34.2	0.4	2.2	40.5	1.9	2,960
30	4	3.0	1.0	1.2	35.5	0.4	2.3	42.0	2.0	3,210
37	4	3.0	1.0	1.4	38.9	0.4	2.4	45.6	2.1	3,860
44	4	3.0	1.0	1.4	44.0	0.4	2.6	51.1	2.3	4,660

LV Power & Lighting Cable

0.6/1kV BFOU, 0.6/1kV BFBU (Fire resistant with water) / Class2 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
1	1.5	1.7	1.0	1.0	6.6	0.3	1.1	10.5	0.7	180
	2.5	2.2	1.0	1.0	7.0	0.3	1.1	11.0	0.7	200
	4	2.7	1.0	1.0	7.5	0.3	1.2	11.7	0.8	230
	6	3.3	1.0	1.0	8.1	0.3	1.2	12.2	0.8	270
	10	4.2	1.0	1.0	9.0	0.3	1.2	13.1	0.8	330
	16	5.3	1.0	1.0	10.0	0.3	1.3	14.4	0.9	420
	25	6.6	1.2	1.0	11.7	0.3	1.3	16.1	0.9	550
	35	7.9	1.2	1.0	12.8	0.3	1.4	17.4	1.0	680
	50	9.1	1.4	1.0	14.6	0.3	1.4	19.2	1.1	850
	70	11.0	1.4	1.0	16.4	0.3	1.5	21.1	1.1	1,100
	95	12.9	1.6	1.0	18.6	0.3	1.6	23.6	1.2	1,430
	120	14.5	1.6	1.0	20.2	0.3	1.7	25.4	1.3	1,710
	150	16.2	1.8	1.0	22.1	0.3	1.7	27.2	1.4	2,040
	185	18.0	2.0	1.0	24.3	0.3	1.8	29.7	1.5	2,470
	240	20.6	2.2	1.2	27.7	0.3	2.0	33.6	1.6	3,180
	300	23.1	2.4	1.2	30.5	0.4	2.1	37.0	1.8	3,950
	400	26.1	2.6	1.2	34.8	0.4	2.3	41.7	2.0	5,220
	500	29.2	2.8	1.4	38.3	0.4	2.4	45.4	2.1	6,260
	630	33.2	2.8	1.4	42.5	0.4	2.6	50.0	2.3	7,910

0.6/1kV BFOU, 0.6/1kV BFCU, 0.6/1kV BFBU (Fire resistant with water) / Class2 Conductor

2	1.5	1.7	1.0	1.0	10.8	0.3	1.3	15.2	0.9	340
	2.5	2.2	1.0	1.0	11.6	0.3	1.3	16.0	0.9	390
	4	2.7	1.0	1.0	12.7	0.3	1.4	17.3	1.0	460
	6	3.3	1.0	1.0	13.8	0.3	1.4	18.4	1.0	540
	10	4.2	1.0	1.0	15.6	0.3	1.5	20.4	1.1	690
	16	5.3	1.0	1.0	17.8	0.3	1.6	22.8	1.2	890
	25	6.6	1.2	1.0	21.1	0.3	1.7	26.3	1.4	1,230
	35	7.9	1.2	1.0	23.4	0.3	1.8	28.8	1.5	1,520
	50	9.1	1.4	1.0	26.9	0.3	1.9	32.6	1.6	1,950
	70	11.0	1.4	1.2	30.8	0.4	2.1	37.3	1.8	2,690
	95	12.9	1.6	1.2	35.3	0.4	2.3	42.2	2.0	3,510
	120	14.5	1.6	1.4	38.9	0.4	2.4	46.0	2.1	4,260
	150	16.2	1.8	1.4	42.6	0.4	2.6	50.1	2.3	5,110
	185	18.0	2.0	1.4	47.2	0.4	2.8	55.1	2.5	6,210
	240	20.6	2.2	1.6	53.6	0.4	3.0	62.0	2.8	7,980
	300	23.1	2.4	1.6	59.1	0.4	3.3	68.1	3.0	9,720
2C+E	1.5	1.8	1.0	1.0	10.8	0.3	1.3	14.9	0.9	370
2C+E	2.5	2.4	1.0	1.0	11.9	0.3	1.3	16.0	0.9	440
2C+E	4	3.0	1.0	1.0	13.0	0.3	1.4	17.3	1.0	530
2C+E	6	3.9	1.0	1.0	14.3	0.3	1.4	18.6	1.0	630
2C+E	10	5.1	1.0	1.0	16.2	0.3	1.5	20.7	1.1	800
2C+E	16	6.3	1.0	1.0	19.5	0.3	1.6	24.2	1.3	1,090
2C	25	7.8	1.2	1.0	22.6	0.3	1.8	27.7	1.4	1,420
Earth	16	6.3	1.0							
2C	35	9.2	1.2	1.0	25.5	0.3	1.9	30.8	1.5	1,820
Earth	25	7.8	1.2							
2C	50	11.0	1.4	1.2	30.0	0.3	2.0	35.5	1.7	2,420
Earth	25	7.8	1.2							
2C	70	13.1	1.4	1.2	33.8	0.4	2.2	40.1	1.9	3,230
Earth	35	9.2	1.2							
2C	95	15.1	1.6	1.2	38.3	0.4	2.4	45.0	2.1	4,130
Earth	50	11.0	1.4							
2C	120	17.0	1.6	1.4	42.6	0.4	2.6	49.7	2.3	5,180
Earth	70	13.1	1.4							
2C	150	19.0	1.8	1.4	47.4	0.4	2.7	54.7	2.5	6,340
Earth	95	15.1	1.6							
2C	185	21.0	2.0	1.6	51.3	0.4	2.9	59.0	2.7	7,440
Earth	95	15.1	1.6							
2C	240	24.0	2.2	1.6	57.5	0.4	3.2	65.8	2.9	9,400
Earth	120	17.0	1.6							

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV BFOU, 0.6/1kV BFCU, 0.6/1kV BFBU (Fire resistant with water) / Class2 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
3	1.5	1.7	1.0	1.0	11.5	0.3	1.3	15.9	0.9	390
	2.5	2.2	1.0	1.0	12.4	0.3	1.4	17.0	1.0	450
	4	2.7	1.0	1.0	13.5	0.3	1.4	18.1	1.0	530
	6	3.3	1.0	1.0	14.7	0.3	1.4	19.3	1.1	630
	10	4.2	1.0	1.0	16.6	0.3	1.5	21.4	1.2	830
	16	5.3	1.0	1.0	19.0	0.3	1.6	24.0	1.3	1,100
	25	6.6	1.2	1.0	22.6	0.3	1.8	28.0	1.4	1,550
	35	7.9	1.2	1.0	25.0	0.3	1.9	30.6	1.5	1,940
	50	9.1	1.4	1.2	29.2	0.3	2.0	35.1	1.7	2,570
	70	11.0	1.4	1.2	33.0	0.4	2.2	39.7	1.9	3,480
	95	12.9	1.6	1.4	38.2	0.4	2.4	45.4	2.1	4,640
	120	14.5	1.6	1.4	41.6	0.4	2.5	49.0	2.3	5,570
	150	16.2	1.8	1.4	45.7	0.4	2.7	53.4	2.4	6,710
	185	18.0	2.0	1.6	51.0	0.4	2.9	59.3	2.7	8,300
	240	20.6	2.2	1.6	57.5	0.4	3.2	66.3	3.0	10,590
	300	23.1	2.4	1.8	63.8	0.4	3.4	73.0	3.2	13,060
3C+E	1.5	1.7	1.0	1.0	12.6	0.3	1.4	17.2	1.0	450
3C+E	2.5	2.2	1.0	1.0	13.6	0.3	1.4	18.2	1.0	530
3C+E	4	2.7	1.0	1.0	14.8	0.3	1.5	19.6	1.1	640
3C+E	6	3.3	1.0	1.0	16.2	0.3	1.5	21.0	1.1	770
3C+E	10	4.2	1.0	1.0	18.4	0.3	1.6	23.3	1.2	1,010
3C+E	16	5.3	1.0	1.0	21.0	0.3	1.7	26.2	1.3	1,360
3C	25	6.6	1.2	1.0	24.2	0.3	1.8	29.5	1.5	1,780
Earth	16	5.3	1.0							
3C	35	7.9	1.2	1.2	27.5	0.3	2.0	33.4	1.6	2,370
Earth	25	6.6	1.2							
3C	50	9.1	1.4	1.2	30.9	0.4	2.1	37.4	1.8	3,020
Earth	25	6.6	1.2							
3C	70	11.0	1.4	1.2	34.8	0.4	2.3	41.7	2.0	3,950
Earth	35	7.9	1.2							
3C	95	12.9	1.6	1.4	40.4	0.4	2.5	47.7	2.2	5,280
Earth	50	9.1	1.4							
3C	120	14.5	1.6	1.4	44.3	0.4	2.7	52.0	2.4	6,470
Earth	70	11.0	1.4							
3C	150	16.2	1.8	1.6	49.4	0.4	2.9	57.6	2.6	8,030
Earth	95	12.9	1.6							
3C	185	18.0	2.0	1.6	53.7	0.4	3.0	62.2	2.8	9,460
Earth	95	12.9	1.6							
3C	240	20.6	2.2	1.6	60.3	0.4	3.3	69.3	3.1	12,000
Earth	120	14.5	1.6							

LV Power & Lighting Cable

0.6/1kV BFOU, 0.6/1kV BFCU, 0.6/1kV BFBU (Fire resistant with water) / Class2 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
4	1.5	1.7	1.0	1.0	12.6	0.3	1.4	17.2	1.0	450
	2.5	2.2	1.0	1.0	13.6	0.3	1.4	18.2	1.0	530
	4	2.7	1.0	1.0	14.8	0.3	1.5	19.6	1.1	640
	6	3.3	1.0	1.0	16.2	0.3	1.5	21.0	1.1	770
	10	4.2	1.0	1.0	18.4	0.3	1.6	23.3	1.2	1,010
	16	5.3	1.0	1.0	21.0	0.3	1.7	26.2	1.3	1,360
	25	6.6	1.2	1.0	25.0	0.3	1.9	30.6	1.5	1,930
	35	7.9	1.2	1.2	28.1	0.3	2.0	34.0	1.7	2,490
	50	9.1	1.4	1.2	32.4	0.4	2.2	39.1	1.9	3,340
	70	11.0	1.4	1.2	36.6	0.4	2.3	43.6	2.0	4,380
	95	12.9	1.6	1.4	42.5	0.4	2.6	50.0	2.3	5,890
	120	14.5	1.6	1.4	46.3	0.4	2.7	54.0	2.5	7,090
	150	16.2	1.8	1.6	51.2	0.4	2.9	59.4	2.7	8,660
	185	18.0	2.0	1.6	56.7	0.4	3.2	65.6	2.9	10,620
	240	20.6	2.2	1.8	64.4	0.4	3.5	73.8	3.3	13,740
	300	23.1	2.4	1.8	71.0	0.4	3.7	80.8	3.5	16,770
4C+E	1.5	1.7	1.0	1.0	13.8	0.3	1.4	18.4	1.0	520
4C+E	2.5	2.2	1.0	1.0	14.9	0.3	1.5	19.7	1.1	620
4C+E	4	2.7	1.0	1.0	16.3	0.3	1.5	21.1	1.1	740
4C+E	6	3.3	1.0	1.0	17.8	0.3	1.6	22.8	1.2	910
4C+E	10	4.2	1.0	1.0	20.3	0.3	1.7	25.5	1.3	1,210
4C+E	16	5.3	1.0	1.0	23.2	0.3	1.8	28.6	1.4	1,630
4C	25	6.6	1.2	1.0	27.0	0.3	1.9	32.7	1.6	2,200
Earth	16	5.3	1.0							
4C	35	7.9	1.2	1.2	30.7	0.4	2.1	37.2	1.8	2,990
Earth	25	6.6	1.2							
4C	50	9.1	1.4	1.2	34.6	0.4	2.3	41.6	2.0	3,760
Earth	25	6.6	1.2							
4C	70	11.0	1.4	1.4	39.5	0.4	2.5	46.8	2.2	5,020
Earth	35	7.9	1.2							
4C	95	12.9	1.6	1.4	45.3	0.4	2.7	53.1	2.4	6,610
Earth	50	9.1	1.4							
4C	120	14.5	1.6	1.6	50.1	0.4	2.9	58.3	2.6	8,190
Earth	70	11.0	1.4							
4C	150	16.2	1.8	1.6	55.3	0.4	3.1	64.0	2.9	10,010
Earth	95	12.9	1.6							
4C	185	18.0	2.0	1.6	60.5	0.4	3.3	69.5	3.1	11,930
Earth	95	12.9	1.6							
4C	240	20.6	2.2	1.8	68.4	0.4	3.6	78.0	3.4	15,350
Earth	120	14.5	1.6							
5	1.5	1.7	1.0	1.0	13.8	0.3	1.4	18.4	1.0	520
	2.5	2.2	1.0	1.0	14.9	0.3	1.5	19.7	1.1	620
	4	2.7	1.0	1.0	16.3	0.3	1.5	21.1	1.1	740
	6	3.3	1.0	1.0	17.8	0.3	1.6	22.8	1.2	910
	10	4.2	1.0	1.0	20.3	0.3	1.7	25.5	1.3	1,210
	16	5.3	1.0	1.0	23.2	0.3	1.8	28.6	1.4	1,630
	25	6.6	1.2	1.2	28.1	0.3	2.0	34.0	1.7	2,390
	35	7.9	1.2	1.2	31.1	0.4	2.1	37.7	1.8	3,100
	50	9.1	1.4	1.2	35.9	0.4	2.3	42.9	2.0	4,050
	70	11.0	1.4	1.4	41.1	0.4	2.5	48.4	2.2	5,440
	95	12.9	1.6	1.4	47.1	0.4	2.8	55.1	2.5	7,210
	120	14.5	1.6	1.6	51.8	0.4	3.0	60.3	2.7	8,830
	150	16.2	1.8	1.6	56.8	0.4	3.2	65.7	2.9	10,660
	185	18.0	2.0	1.6	63.0	0.4	3.4	72.3	3.2	13,050
	240	20.6	2.2	1.8	71.5	0.4	3.8	81.6	3.6	16,930

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV BFOU, 0.6/1kV BFCU, 0.6/1kV BFBU (Fire resistant with water) / Class2 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
2	1.0	1.4	1.0	1.0	10.3	0.3	1.3	14.7	0.9	310
5	1.0	1.4	1.0	1.0	13.1	0.3	1.4	17.6	1.0	470
7	1.0	1.4	1.0	1.0	14.2	0.3	1.4	18.8	1.1	550
8	1.0	1.4	1.0	1.0	15.5	0.3	1.5	20.2	1.1	620
9	1.0	1.4	1.0	1.0	16.7	0.3	1.5	21.5	1.2	690
10	1.0	1.4	1.0	1.0	18.2	0.3	1.6	23.2	1.2	780
12	1.0	1.4	1.0	1.0	18.8	0.3	1.6	23.8	1.3	850
14	1.0	1.4	1.0	1.0	19.9	0.3	1.7	25.1	1.3	940
16	1.0	1.4	1.0	1.0	21.0	0.3	1.7	26.2	1.3	1,030
19	1.0	1.4	1.0	1.0	22.2	0.3	1.8	27.6	1.4	1,150
24	1.0	1.4	1.0	1.0	26.2	0.3	1.9	31.9	1.6	1,470
27	1.0	1.4	1.0	1.0	26.8	0.3	1.9	32.5	1.6	1,560
30	1.0	1.4	1.0	1.2	28.2	0.3	2.0	34.1	1.7	1,740
37	1.0	1.4	1.0	1.2	30.6	0.4	2.1	37.1	1.8	2,110
44	1.0	1.4	1.0	1.2	34.5	0.4	2.3	41.5	2.0	2,550
2	1.5	1.7	1.0	1.0	10.8	0.3	1.3	15.2	0.9	340
5	1.5	1.7	1.0	1.0	13.8	0.3	1.4	18.4	1.0	520
7	1.5	1.7	1.0	1.0	15.1	0.3	1.5	19.8	1.1	620
8	1.5	1.7	1.0	1.0	16.4	0.3	1.5	21.1	1.1	700
9	1.5	1.7	1.0	1.0	17.7	0.3	1.6	22.7	1.2	790
10	1.5	1.7	1.0	1.0	19.3	0.3	1.6	24.3	1.3	880
12	1.5	1.7	1.0	1.0	20.0	0.3	1.7	25.2	1.3	970
14	1.5	1.7	1.0	1.0	21.1	0.3	1.7	26.3	1.4	1,070
16	1.5	1.7	1.0	1.0	22.3	0.3	1.8	27.7	1.4	1,180
19	1.5	1.7	1.0	1.0	23.6	0.3	1.8	28.9	1.5	1,320
24	1.5	1.7	1.0	1.2	28.2	0.3	2.0	34.1	1.7	1,750
27	1.5	1.7	1.0	1.2	28.9	0.3	2.0	34.8	1.7	1,860
30	1.5	1.7	1.0	1.2	30.0	0.4	2.1	36.5	1.8	2,090
37	1.5	1.7	1.0	1.2	32.5	0.4	2.2	39.2	1.9	2,440
44	1.5	1.7	1.0	1.2	36.7	0.4	2.4	43.8	2.1	2,950
2	2.5	2.2	1.0	1.0	11.6	0.3	1.3	16.0	0.9	390
5	2.5	2.2	1.0	1.0	14.9	0.3	1.5	19.7	1.1	620
7	2.5	2.2	1.0	1.0	16.3	0.3	1.5	21.1	1.1	740
8	2.5	2.2	1.0	1.0	17.7	0.3	1.6	22.7	1.2	840
9	2.5	2.2	1.0	1.0	19.2	0.3	1.6	24.2	1.3	940
10	2.5	2.2	1.0	1.0	21.0	0.3	1.7	26.2	1.3	1,060
12	2.5	2.2	1.0	1.0	21.7	0.3	1.7	26.9	1.4	1,160
14	2.5	2.2	1.0	1.0	22.9	0.3	1.8	28.3	1.4	1,300
16	2.5	2.2	1.0	1.0	24.3	0.3	1.8	29.6	1.5	1,430
19	2.5	2.2	1.0	1.0	25.7	0.3	1.9	31.3	1.6	1,620
24	2.5	2.2	1.0	1.2	30.7	0.4	2.1	37.3	1.8	2,230
27	2.5	2.2	1.0	1.2	31.4	0.4	2.1	38.0	1.8	2,380
30	2.5	2.2	1.0	1.2	32.7	0.4	2.2	39.4	1.9	2,580
37	2.5	2.2	1.0	1.2	35.4	0.4	2.3	42.3	2.0	3,020
44	2.5	2.2	1.0	1.4	40.5	0.4	2.5	47.8	2.2	3,730
2	4	2.7	1.0	1.0	12.7	0.3	1.4	17.3	1.0	460
5	4	2.7	1.0	1.0	16.3	0.3	1.5	21.1	1.1	740
7	4	2.7	1.0	1.0	17.8	0.3	1.6	22.8	1.2	910
8	4	2.7	1.0	1.0	19.4	0.3	1.6	24.4	1.3	1,030
9	4	2.7	1.0	1.0	21.0	0.3	1.7	26.2	1.3	1,160
10	4	2.7	1.0	1.0	23.0	0.3	1.8	28.4	1.4	1,320
12	4	2.7	1.0	1.0	23.8	0.3	1.8	29.2	1.5	1,450
14	4	2.7	1.0	1.0	25.2	0.3	1.9	30.9	1.5	1,630
16	4	2.7	1.0	1.0	26.7	0.3	1.9	32.3	1.6	1,800
19	4	2.7	1.0	1.2	28.6	0.3	2.0	34.5	1.7	2,100
24	4	2.7	1.0	1.2	33.8	0.4	2.2	40.5	1.9	2,790
27	4	2.7	1.0	1.2	34.6	0.4	2.3	41.5	2.0	3,010
30	4	2.7	1.0	1.2	35.9	0.4	2.3	42.9	2.0	3,250
37	4	2.7	1.0	1.4	39.4	0.4	2.5	46.7	2.2	3,930
44	4	2.7	1.0	1.4	44.5	0.4	2.7	52.3	2.4	4,740

LV Power & Lighting Cable

0.6/1kV FX-BFOU, 0.6/1kV FX-BFBU (Fire resistant with water) / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
1	1.5	1.8	1.0	1.0	6.6	0.3	1.1	10.6	0.7	180
	2.5	2.4	1.0	1.0	7.0	0.3	1.1	11.0	0.7	200
	4	3.0	1.0	1.0	7.6	0.3	1.2	11.8	0.8	240
	6	3.9	1.0	1.0	8.1	0.3	1.2	12.3	0.8	270
	10	5.1	1.0	1.0	9.0	0.3	1.2	13.2	0.8	330
	16	6.3	1.0	1.0	10.7	0.3	1.3	15.0	0.9	430
	25	7.8	1.2	1.0	12.5	0.3	1.4	17.0	1.0	570
	35	9.2	1.2	1.0	13.7	0.3	1.4	18.2	1.0	690
	50	11.0	1.4	1.0	15.8	0.3	1.5	20.5	1.1	910
	70	13.1	1.4	1.0	17.7	0.3	1.6	22.6	1.2	1,170
	95	15.1	1.6	1.0	19.8	0.3	1.7	24.9	1.3	1,460
	120	17.0	1.6	1.0	21.6	0.3	1.7	26.7	1.4	1,750
	150	19.0	1.8	1.0	23.8	0.3	1.8	29.1	1.5	2,110
	185	21.0	2.0	1.0	25.7	0.3	1.9	31.3	1.6	2,500
	240	24.0	2.2	1.2	29.2	0.3	2.0	35.0	1.7	3,200
	300	27.0	2.4	1.2	32.1	0.4	2.2	38.8	1.9	4,040

0.6/1kV FX-BFOU, 0.6/1kV FX-BFCU, 0.6/1kV FX-BFBU (Fire resistant with water) / Class5 Conductor

2	1.5	1.8	1.0	1.0	10.8	0.3	1.3	15.2	0.9	340
	2.5	2.4	1.0	1.0	11.7	0.3	1.3	16.1	0.9	390
	4	3.0	1.0	1.0	12.8	0.3	1.4	17.4	1.0	460
	6	3.9	1.0	1.0	13.9	0.3	1.4	18.5	1.0	540
	10	5.1	1.0	1.0	15.7	0.3	1.5	20.5	1.1	690
	16	6.3	1.0	1.0	19.0	0.3	1.6	24.0	1.3	940
	25	7.8	1.2	1.0	22.6	0.3	1.8	28.0	1.4	1,290
	35	9.2	1.2	1.0	25.0	0.3	1.9	30.6	1.5	1,590
	50	11.0	1.4	1.2	29.6	0.3	2.1	35.7	1.7	2,190
	70	13.1	1.4	1.2	33.4	0.4	2.2	40.1	1.9	2,900
	95	15.1	1.6	1.4	38.0	0.4	2.4	45.1	2.1	3,710
	120	17.0	1.6	1.4	41.6	0.4	2.5	48.9	2.3	4,460
	150	19.0	1.8	1.4	46.0	0.4	2.7	53.7	2.4	5,410
	185	21.0	2.0	1.6	50.2	0.4	2.9	58.5	2.6	6,490
	240	24.0	2.2	1.6	56.4	0.4	3.1	65.1	2.9	8,190
	300	27.0	2.4	1.6	62.2	0.4	3.4	71.5	3.2	10,080
2C+E	1.5	1.8	1.0	1.0	11.5	0.3	1.3	15.9	0.9	390
2C+E	2.5	2.4	1.0	1.0	12.4	0.3	1.4	17.0	1.0	450
2C+E	4	3.0	1.0	1.0	13.6	0.3	1.4	18.2	1.0	540
2C+E	6	3.9	1.0	1.0	14.8	0.3	1.5	19.6	1.1	650
2C+E	10	5.1	1.0	1.0	16.8	0.3	1.5	21.6	1.2	830
2C+E	16	6.3	1.0	1.0	20.3	0.3	1.7	25.5	1.3	1,160
2C	25	7.8	1.2	1.0	23.4	0.3	1.8	28.8	1.5	1,480
Earth	16	6.3	1.0							
2C	35	9.2	1.2	1.0	26.4	0.3	1.9	32.1	1.6	1,900
Earth	25	7.8	1.2							
2C	50	11.0	1.4	1.2	30.1	0.4	2.1	36.6	1.8	2,530
Earth	25	7.8	1.2							
2C	70	13.1	1.4	1.2	33.8	0.4	2.2	40.6	1.9	3,240
Earth	35	9.2	1.2							
2C	95	15.1	1.6	1.4	38.8	0.4	2.4	45.9	2.1	4,220
Earth	50	11.0	1.4							
2C	120	17.0	1.6	1.4	42.8	0.4	2.6	50.3	2.3	5,210
Earth	70	13.1	1.4							
2C	150	19.0	1.8	1.4	47.6	0.4	2.8	55.5	2.5	6,400
Earth	95	15.1	1.6							
2C	185	21.0	2.0	1.6	50.9	0.4	2.9	59.2	2.7	7,390
Earth	95	15.1	1.6							
2C	240	24.0	2.2	1.6	56.9	0.4	3.2	65.8	2.9	9,320
Earth	120	17.0	1.6							

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV FX-BFOU, 0.6/1kV FX-BFCU, 0.6/1kV FX-BFBU (Fire resistant with water) / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
3	1.5	1.8	1.0	1.0	11.4	0.3	1.3	15.8	0.9	380
	2.5	2.4	1.0	1.0	12.4	0.3	1.4	17.0	1.0	450
	4	3.0	1.0	1.0	13.6	0.3	1.4	18.2	1.0	540
	6	3.9	1.0	1.0	14.8	0.3	1.5	19.6	1.1	650
	10	5.1	1.0	1.0	16.8	0.3	1.5	21.6	1.2	830
	16	6.3	1.0	1.0	20.3	0.3	1.7	25.5	1.3	1,160
	25	7.8	1.2	1.0	24.2	0.3	1.8	29.6	1.5	1,600
	35	9.2	1.2	1.0	26.8	0.3	1.9	32.5	1.6	2,000
	50	11.0	1.4	1.2	31.7	0.4	2.2	38.4	1.8	2,880
	70	13.1	1.4	1.2	35.8	0.4	2.3	42.7	2.0	3,720
	95	15.1	1.6	1.4	40.7	0.4	2.5	48.0	2.2	4,770
	120	17.0	1.6	1.4	44.6	0.4	2.7	52.3	2.4	5,810
	150	19.0	1.8	1.6	49.7	0.4	2.9	58.1	2.6	7,180
	185	21.0	2.0	1.6	53.8	0.4	3.0	62.4	2.8	8,480
	240	24.0	2.2	1.6	60.5	0.4	3.3	69.7	3.1	10,800
	300	27.0	2.4	1.8	67.2	0.4	3.6	76.9	3.4	13,510
3C+E	1.5	1.8	1.0	1.0	12.6	0.3	1.4	17.2	1.0	450
3C+E	2.5	2.4	1.0	1.0	13.6	0.3	1.4	18.2	1.0	530
3C+E	4	3.0	1.0	1.0	14.9	0.3	1.5	19.7	1.1	640
3C+E	6	3.9	1.0	1.0	16.3	0.3	1.5	21.1	1.1	770
3C+E	10	5.1	1.0	1.0	18.5	0.3	1.6	23.5	1.2	1,020
3C+E	16	6.3	1.0	1.0	22.5	0.3	1.8	27.9	1.4	1,420
3C	25	7.8	1.2	1.0	25.9	0.3	1.9	31.5	1.6	1,850
Earth	16	6.3	1.0							
3C	35	9.2	1.2	1.2	29.5	0.3	2.0	35.4	1.7	2,430
Earth	25	7.8	1.2							
3C	50	11.0	1.4	1.2	33.5	0.4	2.2	40.2	1.9	3,230
Earth	25	7.8	1.2							
3C	70	13.1	1.4	1.4	38.1	0.4	2.4	45.2	2.1	4,270
Earth	35	9.2	1.2							
3C	95	15.1	1.6	1.4	43.1	0.4	2.6	50.7	2.3	5,450
Earth	50	11.0	1.4							
3C	120	17.0	1.6	1.4	47.5	0.4	2.8	55.5	2.5	6,730
Earth	70	13.1	1.4							
3C	150	19.0	1.8	1.6	53.2	0.4	3.0	61.6	2.8	8,380
Earth	95	15.1	1.6							
3C	185	21.0	2.0	1.6	56.8	0.4	3.2	65.7	2.9	9,680
Earth	95	15.1	1.6							
3C	240	24.0	2.2	1.8	64.0	0.4	3.5	73.5	3.2	12,430
Earth	120	17.0	1.6							

LV Power & Lighting Cable

0.6/1kV FX-BFOU, 0.6/1kV FX-BFCU, 0.6/1kV FX-BFBU (Fire resistant with water) / Class5 Conductor

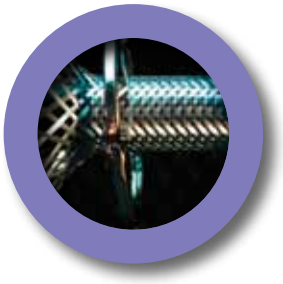
No. of Cores	Conductor		Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
4	1.5	1.8	1.0	1.0	12.6	0.3	1.4	17.1	1.0	450
	2.5	2.4	1.0	1.0	13.6	0.3	1.4	18.2	1.0	530
	4	3.0	1.0	1.0	14.9	0.3	1.5	19.7	1.1	640
	6	3.9	1.0	1.0	16.3	0.3	1.5	21.1	1.1	770
	10	5.1	1.0	1.0	18.5	0.3	1.6	23.5	1.2	1,020
	16	6.3	1.0	1.0	22.5	0.3	1.8	27.9	1.4	1,420
	25	7.8	1.2	1.0	26.8	0.3	1.9	32.5	1.6	1,990
	35	9.2	1.2	1.2	30.1	0.4	2.1	36.6	1.8	2,650
	50	11.0	1.4	1.2	35.2	0.4	2.3	42.1	2.0	3,590
	70	13.1	1.4	1.4	40.2	0.4	2.5	47.5	2.2	4,770
	95	15.1	1.6	1.4	45.2	0.4	2.7	53.0	2.4	6,040
	120	17.0	1.6	1.6	50.0	0.4	2.9	58.2	2.6	7,470
	150	19.0	1.8	1.6	55.3	0.4	3.1	63.9	2.9	9,110
	185	21.0	2.0	1.6	59.9	0.4	3.3	68.9	3.1	10,810
	240	24.0	2.2	1.8	67.8	0.4	3.6	77.4	3.4	13,980
	300	27.0	2.4	1.8	74.8	0.4	3.9	85.0	3.7	17,290
4C+E	1.5	1.8	1.0	1.0	13.8	0.3	1.4	18.4	1.0	520
4C+E	2.5	2.4	1.0	1.0	15.0	0.3	1.5	19.8	1.1	620
4C+E	4	3.0	1.0	1.0	16.5	0.3	1.5	21.3	1.2	750
4C+E	6	3.9	1.0	1.0	18.0	0.3	1.6	23.0	1.2	920
4C+E	10	5.1	1.0	1.0	20.5	0.3	1.7	25.6	1.3	1,210
4C+E	16	6.3	1.0	1.0	24.9	0.3	1.9	30.4	1.5	1,710
4C	25	7.8	1.2	1.2	29.3	0.3	2.0	35.2	1.7	2,320
Earth	16	6.3	1.0							
4C	35	9.2	1.2	1.2	32.8	0.4	2.2	39.6	1.9	3,090
Earth	25	7.8	1.2							
4C	50	11.0	1.4	1.4	38.0	0.4	2.4	45.1	2.1	4,100
Earth	25	7.8	1.2							
4C	70	13.1	1.4	1.4	42.8	0.4	2.6	50.3	2.3	5,330
Earth	35	9.2	1.2							
4C	95	15.1	1.6	1.6	48.8	0.4	2.8	56.9	2.6	6,910
Earth	50	11.0	1.4							
4C	120	17.0	1.6	1.6	53.7	0.4	3.0	62.2	2.8	8,510
Earth	70	13.1	1.4							
4C	150	19.0	1.8	1.6	59.6	0.4	3.3	68.7	3.0	10,480
Earth	95	15.1	1.6							
4C	185	21.0	2.0	1.8	64.3	0.4	3.5	73.8	3.3	12,340
Earth	95	15.1	1.6							
4C	240	24.0	2.2	1.8	72.1	0.4	3.8	82.2	3.6	15,680
Earth	120	17.0	1.6							

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV FX-BFOU, 0.6/1kV FX-BFCU, 0.6/1kV FX-BFBU (Fire resistant with water) / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
5	1.0	1.5	1.0	1.0	13.1	0.3	1.4	17.7	1.0	470
7	1.0	1.5	1.0	1.0	14.3	0.3	1.4	18.9	1.1	550
9	1.0	1.5	1.0	1.0	16.8	0.3	1.5	21.5	1.2	690
12	1.0	1.5	1.0	1.0	18.9	0.3	1.6	23.9	1.3	850
14	1.0	1.5	1.0	1.0	20.0	0.3	1.7	25.2	1.3	940
16	1.0	1.5	1.0	1.0	21.1	0.3	1.7	26.3	1.4	1,030
19	1.0	1.5	1.0	1.0	22.3	0.3	1.8	27.7	1.4	1,160
24	1.0	1.5	1.0	1.0	26.3	0.3	1.9	32.0	1.6	1,470
27	1.0	1.5	1.0	1.0	26.9	0.3	1.9	32.6	1.6	1,560
30	1.0	1.5	1.0	1.2	28.4	0.3	2.0	34.3	1.7	1,740
37	1.0	1.5	1.0	1.2	30.7	0.4	2.1	37.2	1.8	2,110
44	1.0	1.5	1.0	1.2	34.7	0.4	2.3	41.6	2.0	2,560
5	1.5	1.8	1.0	1.0	13.8	0.3	1.4	18.4	1.0	520
7	1.5	1.8	1.0	1.0	15.1	0.3	1.5	19.9	1.1	620
9	1.5	1.8	1.0	1.0	17.7	0.3	1.6	22.7	1.2	790
12	1.5	1.8	1.0	1.0	20.0	0.3	1.7	25.2	1.3	970
14	1.5	1.8	1.0	1.0	21.2	0.3	1.7	26.3	1.4	1,070
16	1.5	1.8	1.0	1.0	22.4	0.3	1.8	27.8	1.4	1,190
19	1.5	1.8	1.0	1.0	23.7	0.3	1.8	29.0	1.5	1,320
24	1.5	1.8	1.0	1.2	28.3	0.3	2.0	34.2	1.7	1,750
27	1.5	1.8	1.0	1.2	29.0	0.3	2.0	34.9	1.7	1,860
30	1.5	1.8	1.0	1.2	30.1	0.4	2.1	36.6	1.8	2,100
37	1.5	1.8	1.0	1.2	32.6	0.4	2.2	39.3	1.9	2,440
44	1.5	1.8	1.0	1.2	36.9	0.4	2.4	44.0	2.1	2,950
5	2.5	2.4	1.0	1.0	15.0	0.3	1.5	19.8	1.1	620
7	2.5	2.4	1.0	1.0	16.4	0.3	1.5	21.2	1.1	740
9	2.5	2.4	1.0	1.0	19.3	0.3	1.6	24.3	1.3	940
12	2.5	2.4	1.0	1.0	21.9	0.3	1.7	27.1	1.4	1,170
14	2.5	2.4	1.0	1.0	23.1	0.3	1.8	28.5	1.4	1,310
16	2.5	2.4	1.0	1.0	24.4	0.3	1.8	29.8	1.5	1,440
19	2.5	2.4	1.0	1.0	25.9	0.3	1.9	31.5	1.6	1,630
24	2.5	2.4	1.0	1.2	31.0	0.4	2.1	37.5	1.8	2,250
27	2.5	2.4	1.0	1.2	31.7	0.4	2.2	38.4	1.8	2,410
30	2.5	2.4	1.0	1.2	32.9	0.4	2.2	39.7	1.9	2,590
37	2.5	2.4	1.0	1.2	35.7	0.4	2.3	42.6	2.0	3,040
44	2.5	2.4	1.0	1.4	40.8	0.4	2.5	48.1	2.2	3,750
5	4	3.0	1.0	1.0	16.5	0.3	1.5	21.3	1.2	750
7	4	3.0	1.0	1.0	18.1	0.3	1.6	23.1	1.2	920
9	4	3.0	1.0	1.0	21.3	0.3	1.7	26.5	1.4	1,180
12	4	3.0	1.0	1.0	24.2	0.3	1.8	29.6	1.5	1,470
14	4	3.0	1.0	1.0	25.5	0.3	1.9	31.2	1.5	1,660
16	4	3.0	1.0	1.0	27.0	0.3	1.9	32.7	1.6	1,830
19	4	3.0	1.0	1.2	29.0	0.3	2.0	34.9	1.7	2,130
24	4	3.0	1.0	1.2	34.3	0.4	2.3	41.2	1.9	2,860
27	4	3.0	1.0	1.2	35.1	0.4	2.3	42.0	2.0	3,060
30	4	3.0	1.0	1.2	36.4	0.4	2.3	43.4	2.0	3,300
37	4	3.0	1.0	1.4	39.9	0.4	2.5	47.3	2.2	3,990
44	4	3.0	1.0	1.4	45.2	0.4	2.7	52.9	2.4	4,830



Instrumentation & Communication Cable

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

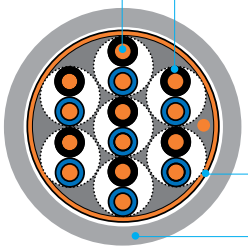
Cable Designation (S106)

250V RU(c)

Application Standard

- Design guide	: NEK-606 & IEC 60092-376
- Flame retardant	: IEC 60332-1 & IEC 60332-3 Category A
- Halogen content	: IEC 60754-1, 0.5% ↓
- Cold bend / impact	: CSA 22.2 No.03 (-40℃/-35℃)
- Mud / Oil resistant	: NEK-606 (Category a, b, c, d)
- Smoke light transmittance	: IEC 61034, 60% ↑
- Sunlight (UV) resistant	: UL 1581

Construction

Sectional view	Classification	Code	Construction detail
	Conductor	FX-	- Stranded tinned annealed copper wires as per IEC 60228, Class 2 - Option : Stranded tinned annealed copper wires as per IEC 60228, Class 5 (FX-added)
	Insulation	R	- EPR as per IEC 60092-360
	Twisting		- Two/Three Insulated cores shall be twisted together to form a pair/Triad
	Cabling		- Twisted pairs / triads shall be cabled - Flame retardant & non-hygroscopic fillers may be used - Suitable tape(s) may be applied on the cabled core - A Filler may be applied to obtain a circular Cable
	Collective screen	(c)	- CU/PS or AL/PS tape + Tinned copper drain wire
	Sheath	U	- SHF2 as per IEC 60092-360 - Option : NEK-606 (Category a, b, c, d) / Mud or oil resistant - Outer sheath color : Grey (Non-IS Type) or Blue (IS Type)
	Core identification		- Each Pair / Triad : Core color ① Pair : Black, Light blue ② Triad : Black, Light blue, Brown - Multi Pairs / Triads : Number printing on the insulation or numbered tape

Instrumentation & Communication Cable

250V RU(c) / Class2 Conductor
250V FX-RU(c) / Class5 Conductor

(PAIR TYPE)

No. of Pairs	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	±mm	kg/km
1P	0.75	1.3	0.6	1.0	7.5	1.0	90
2P	0.75	1.3	0.6	1.1	10.9	1.1	170
3P	0.75	1.3	0.6	1.2	11.7	1.3	210
4P	0.75	1.3	0.6	1.2	12.5	1.3	240
5P	0.75	1.3	0.6	1.2	13.9	1.3	290
6P	0.75	1.3	0.6	1.3	15.1	1.4	350
7P	0.75	1.3	0.6	1.3	15.1	1.4	360
8P	0.75	1.3	0.6	1.3	16.0	1.4	410
10P	0.75	1.3	0.6	1.4	18.1	1.5	510
12P	0.75	1.3	0.6	1.4	18.8	1.5	560
14P	0.75	1.3	0.6	1.5	19.6	1.7	630
16P	0.75	1.3	0.6	1.5	21.1	1.7	720
19P	0.75	1.3	0.6	1.6	22.1	1.8	820
24P	0.75	1.3	0.6	1.7	25.2	2.0	1,040
32P	0.75	1.3	0.6	1.8	28.8	2.1	1,350
1P	1.0	1.5	0.6	1.0	7.9	1.0	110
2P	1.0	1.5	0.6	1.2	11.7	1.3	200
3P	1.0	1.5	0.6	1.2	12.6	1.3	240
4P	1.0	1.5	0.6	1.2	13.3	1.3	280
5P	1.0	1.5	0.6	1.3	15.1	1.4	350
6P	1.0	1.5	0.6	1.3	16.1	1.4	400
7P	1.0	1.5	0.6	1.3	16.1	1.4	420
8P	1.0	1.5	0.6	1.4	17.2	1.5	480
10P	1.0	1.5	0.6	1.5	19.4	1.6	610
12P	1.0	1.5	0.6	1.5	20.3	1.6	680
14P	1.0	1.5	0.6	1.5	21.1	1.7	750
16P	1.0	1.5	0.6	1.6	22.7	1.8	860
19P	1.0	1.5	0.6	1.6	23.8	1.8	970
24P	1.0	1.5	0.6	1.7	27.1	1.9	1,230
32P	1.0	1.5	0.6	1.9	31.0	2.1	1,630
1P	1.5	1.8	0.7	1.1	9.0	1.2	140
2P	1.5	1.8	0.7	1.2	13.5	1.2	260
3P	1.5	1.8	0.7	1.3	14.6	1.3	320
4P	1.5	1.8	0.7	1.3	15.5	1.3	380
5P	1.5	1.8	0.7	1.4	17.6	1.4	470
6P	1.5	1.8	0.7	1.4	18.8	1.5	540
7P	1.5	1.8	0.7	1.4	18.8	1.5	570
8P	1.5	1.8	0.7	1.5	20.2	1.5	650
10P	1.5	1.8	0.7	1.6	22.8	1.6	820
12P	1.5	1.8	0.7	1.6	23.8	1.7	920
14P	1.5	1.8	0.7	1.7	24.8	1.9	1,040
16P	1.5	1.8	0.7	1.7	26.7	1.9	1,180
19P	1.5	1.8	0.7	1.8	28.0	2.0	1,350
24P	1.5	1.8	0.7	1.9	32.1	2.0	1,720
32P	1.5	1.8	0.7	2.1	36.7	2.1	2,270
1P	2.5	2.4	0.7	1.1	9.9	1.1	170
2P	2.5	2.4	0.7	1.3	15.1	1.3	340
3P	2.5	2.4	0.7	1.3	16.1	1.3	420
4P	2.5	2.4	0.7	1.4	17.3	1.3	510
5P	2.5	2.4	0.7	1.5	19.5	1.6	630
6P	2.5	2.4	0.7	1.5	21.0	1.6	730
7P	2.5	2.4	0.7	1.5	21.0	1.6	770
8P	2.5	2.4	0.7	1.6	22.5	1.7	890
10P	2.5	2.4	0.7	1.7	25.5	1.7	1,120
12P	2.5	2.4	0.7	1.7	26.6	1.8	1,260
14P	2.5	2.4	0.7	1.8	27.7	2.0	1,420
16P	2.5	2.4	0.7	1.8	30.0	2.0	1,620
19P	2.5	2.4	0.7	1.9	31.5	2.1	1,860
24P	2.5	2.4	0.7	2.1	36.0	2.2	2,400
32P	2.5	2.4	0.7	2.3	41.2	2.4	3,180

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

250V RU(c) / Class2 Conductor
250V FX-RU(c) / Class5 Conductor

(TRIAD TYPE)

No. of Triads	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	±mm	kg/km
1T	0.75	1.3	0.6	1.0	7.9	1.0	110
2T	0.75	1.3	0.6	1.2	12.1	1.2	220
3T	0.75	1.3	0.6	1.2	12.8	1.2	260
4T	0.75	1.3	0.6	1.3	14.1	1.3	320
5T	0.75	1.3	0.6	1.3	15.6	1.3	380
6T	0.75	1.3	0.6	1.4	17.7	1.4	480
7T	0.75	1.3	0.6	1.4	17.7	1.4	500
8T	0.75	1.3	0.6	1.4	18.9	1.5	570
10T	0.75	1.3	0.6	1.5	21.5	1.7	710
12T	0.75	1.3	0.6	1.6	22.9	1.7	830
14T	0.75	1.3	0.6	1.6	23.8	1.7	920
16T	0.75	1.3	0.6	1.7	25.3	1.9	1,040
19T	0.75	1.3	0.6	1.8	27.5	2.0	1,230
24T	0.75	1.3	0.6	1.9	30.5	2.0	1,520
32T	0.75	1.3	0.6	2.0	35.1	2.2	2,000
1T	1.0	1.5	0.6	1.0	8.3	1.1	120
2T	1.0	1.5	0.6	1.2	12.8	1.2	250
3T	1.0	1.5	0.6	1.2	13.6	1.2	300
4T	1.0	1.5	0.6	1.3	15.1	1.4	370
5T	1.0	1.5	0.6	1.3	16.6	1.4	450
6T	1.0	1.5	0.6	1.4	18.8	1.5	560
7T	1.0	1.5	0.6	1.4	18.8	1.5	590
8T	1.0	1.5	0.6	1.5	20.3	1.5	680
10T	1.0	1.5	0.6	1.6	23.1	1.7	860
12T	1.0	1.5	0.6	1.6	24.3	1.8	970
14T	1.0	1.5	0.6	1.7	25.4	1.9	1,100
16T	1.0	1.5	0.6	1.7	27.1	1.9	1,230
19T	1.0	1.5	0.6	1.8	29.4	2.0	1,450
24T	1.0	1.5	0.6	2.0	32.8	2.1	1,830
32T	1.0	1.5	0.6	2.1	37.7	2.3	2,410
1T	1.5	1.8	0.7	1.1	9.6	1.1	160
2T	1.5	1.8	0.7	1.3	15.0	1.3	330
3T	1.5	1.8	0.7	1.3	15.9	1.3	400
4T	1.5	1.8	0.7	1.4	17.6	1.3	500
5T	1.5	1.8	0.7	1.5	19.6	1.6	620
6T	1.5	1.8	0.7	1.6	22.2	1.7	780
7T	1.5	1.8	0.7	1.6	22.2	1.7	820
8T	1.5	1.8	0.7	1.6	23.8	1.7	920
10T	1.5	1.8	0.7	1.7	27.1	1.8	1,170
12T	1.5	1.8	0.7	1.8	28.8	1.9	1,360
14T	1.5	1.8	0.7	1.9	30.2	1.9	1,530
16T	1.5	1.8	0.7	1.9	32.2	2.0	1,730
19T	1.5	1.8	0.7	2.0	34.9	2.1	2,030
24T	1.5	1.8	0.7	2.2	38.8	2.3	2,560
32T	1.5	1.8	0.7	2.4	44.8	2.5	3,420
1T	2.5	2.4	0.7	1.1	10.4	1.0	200
2T	2.5	2.4	0.7	1.3	16.4	1.2	430
3T	2.5	2.4	0.7	1.4	17.7	1.2	540
4T	2.5	2.4	0.7	1.4	19.4	1.3	660
5T	2.5	2.4	0.7	1.5	21.7	1.4	820
6T	2.5	2.4	0.7	1.6	24.7	1.6	1,020
7T	2.5	2.4	0.7	1.6	24.7	1.6	1,090
8T	2.5	2.4	0.7	1.7	26.6	1.6	1,260
10T	2.5	2.4	0.7	1.9	30.5	1.7	1,620
12T	2.5	2.4	0.7	1.9	32.3	1.7	1,850
14T	2.5	2.4	0.7	2.0	33.8	1.7	2,100
16T	2.5	2.4	0.7	2.1	36.0	1.9	2,400
19T	2.5	2.4	0.7	2.2	39.1	1.9	2,830
24T	2.5	2.4	0.7	2.3	43.5	2.1	3,520
32T	2.5	2.4	0.7	2.6	50.3	2.3	4,750

Instrumentation & Communication Cable

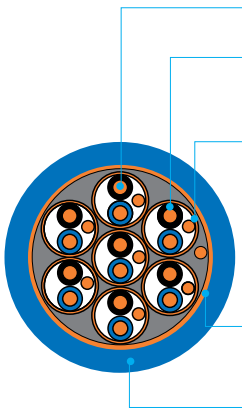
Cable Designation (S105)

250V RU(i), 250V RU(i&c)

Application Standard

- Design guide	: NEK-606 & IEC 60092-376
- Flame retardant	: IEC 60332-1 & IEC 60332-3 Category A
- Halogen content	: IEC 60754-1, 0.5% ↓
- Cold bend / impact	: CSA 22.2 No.03 (-40℃/-35℃)
- Mud / Oil resistant	: NEK-606 (Category a, b, c, d)
- Smoke light transmittance	: IEC 61034, 60% ↑
- Sunlight (UV) resistant	: UL 1581

Construction

Sectional view	Classification	Code	Construction detail
	Conductor	FX-	- Stranded tinned annealed copper wires as per IEC 60228, Class 2 - Option : Stranded tinned annealed copper wires as per IEC 60228, Class 5(FX-added)
	Insulation	R	- EPR as per IEC 60092-360
	Twisting		- Two/Three Insulated cores shall be twisted together to form a pair/Triad
	Individual screen	(i)	- CU/PS or AL/PS tape + Tinned copper drain wire - In case of 1P, 1T for 250V RU(i&c), individual screen is omitted
	Cabling		- Twisted pairs / triads shall be cabled - Flame retardant & non-hygroscopic fillers may be used - Suitable tape(s) may be applied on the cabled core - A Filler may be applied to obtain a circular Cable
	Collective screen	(c)	- CU/PS or AL/PS tape + Tinned copper drain wire - In case of 250V RU(i), collective screen is omitted
	Sheath	U	- SHF2 as per IEC 60092-360 - Option : NEK-606 (Category a, b, c, d) / Mud or oil resistant - Outer sheath color : Grey (Non-IS Type) or Blue (IS Type)
	Core identification		- Each Pair / Triad : Core color ① Pair : Black, Light blue ② Triad : Black, Light blue, Brown - Multi Pairs / Triads : Number printing on the insulation or numbered tape

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

250V RU(i), 250V RU(i&c) / Class2 Conductor
250V FX-RU(i), 250V FX-RU(i&c) / Class5 Conductor

(PAIR TYPE)

No. of Pairs	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	±mm	kg/km
1P	0.75	1.3	0.6	1.0	7.5	1.0	90
2P	0.75	1.3	0.6	1.2	11.9	1.2	210
3P	0.75	1.3	0.6	1.2	12.5	1.2	250
4P	0.75	1.3	0.6	1.2	13.6	1.2	300
5P	0.75	1.3	0.6	1.3	15.3	1.3	380
6P	0.75	1.3	0.6	1.3	15.9	1.4	420
7P	0.75	1.3	0.6	1.3	15.9	1.4	440
8P	0.75	1.3	0.6	1.4	17.5	1.4	520
10P	0.75	1.3	0.6	1.5	19.9	1.7	660
12P	0.75	1.3	0.6	1.5	20.7	1.7	740
14P	0.75	1.3	0.6	1.5	21.7	1.7	830
16P	0.75	1.3	0.6	1.6	23.4	1.7	950
19P	0.75	1.3	0.6	1.6	23.9	1.7	1,050
24P	0.75	1.3	0.6	1.8	28.0	2.1	1,390
32P	0.75	1.3	0.6	1.9	30.5	2.0	1,730
1P	1.0	1.5	0.6	1.0	7.9	1.0	110
2P	1.0	1.5	0.6	1.2	12.6	1.2	240
3P	1.0	1.5	0.6	1.2	13.3	1.2	290
4P	1.0	1.5	0.6	1.3	14.7	1.4	360
5P	1.0	1.5	0.6	1.3	16.3	1.4	440
6P	1.0	1.5	0.6	1.4	17.0	1.5	500
7P	1.0	1.5	0.6	1.4	17.0	1.5	530
8P	1.0	1.5	0.6	1.4	18.6	1.5	610
10P	1.0	1.5	0.6	1.5	21.3	1.7	780
12P	1.0	1.5	0.6	1.6	22.2	1.8	890
14P	1.0	1.5	0.6	1.6	23.4	1.8	990
16P	1.0	1.5	0.6	1.7	25.1	1.9	1,150
19P	1.0	1.5	0.6	1.7	25.7	1.9	1,260
24P	1.0	1.5	0.6	1.9	30.2	2.0	1,670
32P	1.0	1.5	0.6	2.0	32.8	2.1	2,080
1P	1.5	1.8	0.7	1.1	9.0	1.2	140
2P	1.5	1.8	0.7	1.3	14.4	1.4	320
3P	1.5	1.8	0.7	1.3	15.3	1.4	380
4P	1.5	1.8	0.7	1.4	16.9	1.5	470
5P	1.5	1.8	0.7	1.4	18.9	1.5	570
6P	1.5	1.8	0.7	1.5	19.7	1.6	650
7P	1.5	1.8	0.7	1.5	19.7	1.6	690
8P	1.5	1.8	0.7	1.5	21.6	1.6	800
10P	1.5	1.8	0.7	1.7	24.8	1.8	1,040
12P	1.5	1.8	0.7	1.7	25.9	1.8	1,160
14P	1.5	1.8	0.7	1.7	27.2	1.8	1,300
16P	1.5	1.8	0.7	1.8	29.3	1.9	1,510
19P	1.5	1.8	0.7	1.8	30.0	1.9	1,660
24P	1.5	1.8	0.7	2.0	35.2	2.1	2,200
32P	1.5	1.8	0.7	2.2	38.4	2.3	2,780
1P	2.5	2.4	0.7	1.1	9.9	1.1	170
2P	2.5	2.4	0.7	1.3	15.9	1.3	400
3P	2.5	2.4	0.7	1.4	16.9	1.4	500
4P	2.5	2.4	0.7	1.4	18.6	1.4	610
5P	2.5	2.4	0.7	1.5	21.0	1.5	760
6P	2.5	2.4	0.7	1.5	21.8	1.6	850
7P	2.5	2.4	0.7	1.5	21.8	1.6	910
8P	2.5	2.4	0.7	1.6	24.1	1.6	1,080
10P	2.5	2.4	0.7	1.8	27.6	1.8	1,390
12P	2.5	2.4	0.7	1.8	28.8	1.9	1,570
14P	2.5	2.4	0.7	1.9	30.5	1.9	1,790
16P	2.5	2.4	0.7	1.9	32.7	1.9	2,040
19P	2.5	2.4	0.7	2.0	33.5	2.0	2,290
24P	2.5	2.4	0.7	2.2	39.4	2.2	3,020
32P	2.5	2.4	0.7	2.3	42.9	2.4	3,790

Instrumentation & Communication Cable

250V RU(i), 250V RU(i&c) / Class2 Conductor
250V FX-RU(i), 250V FX-RU(i&c) / Class5 Conductor

(TRIAD TYPE)

No. of Triads	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	±mm	kg/km
1T	0.75	1.3	0.6	1.0	7.9	1.0	110
2T	0.75	1.3	0.6	1.2	12.6	1.2	250
3T	0.75	1.3	0.6	1.2	13.4	1.2	300
4T	0.75	1.3	0.6	1.3	14.8	1.3	370
5T	0.75	1.3	0.6	1.3	16.4	1.4	450
6T	0.75	1.3	0.6	1.4	18.6	1.5	560
7T	0.75	1.3	0.6	1.4	18.6	1.5	590
8T	0.75	1.3	0.6	1.5	19.9	1.6	680
10T	0.75	1.3	0.6	1.6	22.6	1.8	860
12T	0.75	1.3	0.6	1.6	24.0	1.8	970
14T	0.75	1.3	0.6	1.7	25.1	1.9	1,100
16T	0.75	1.3	0.6	1.7	26.7	1.9	1,240
19T	0.75	1.3	0.6	1.8	28.9	2.0	1,460
24T	0.75	1.3	0.6	1.9	32.2	2.0	1,820
32T	0.75	1.3	0.6	2.1	37.1	2.2	2,420
1T	1.0	1.5	0.6	1.0	8.3	1.1	120
2T	1.0	1.5	0.6	1.2	13.4	1.2	280
3T	1.0	1.5	0.6	1.3	14.2	1.3	350
4T	1.0	1.5	0.6	1.3	15.7	1.3	430
5T	1.0	1.5	0.6	1.4	17.5	1.3	530
6T	1.0	1.5	0.6	1.5	19.8	1.6	660
7T	1.0	1.5	0.6	1.5	19.8	1.6	700
8T	1.0	1.5	0.6	1.5	21.2	1.6	800
10T	1.0	1.5	0.6	1.6	24.1	1.7	1,000
12T	1.0	1.5	0.6	1.7	25.7	1.8	1,170
14T	1.0	1.5	0.6	1.7	26.7	1.8	1,300
16T	1.0	1.5	0.6	1.8	28.5	1.9	1,480
19T	1.0	1.5	0.6	1.9	30.9	2.1	1,750
24T	1.0	1.5	0.6	2.0	34.4	2.1	2,180
32T	1.0	1.5	0.6	2.2	39.7	2.3	2,900
1T	1.5	1.8	0.7	1.1	9.6	1.1	160
2T	1.5	1.8	0.7	1.3	15.5	1.3	370
3T	1.5	1.8	0.7	1.3	16.4	1.3	450
4T	1.5	1.8	0.7	1.4	18.2	1.4	570
5T	1.5	1.8	0.7	1.5	20.4	1.5	710
6T	1.5	1.8	0.7	1.6	23.1	1.6	880
7T	1.5	1.8	0.7	1.6	23.1	1.6	930
8T	1.5	1.8	0.7	1.7	24.8	1.8	1,070
10T	1.5	1.8	0.7	1.8	28.4	1.9	1,360
12T	1.5	1.8	0.7	1.8	30.0	1.9	1,550
14T	1.5	1.8	0.7	1.9	31.5	1.9	1,760
16T	1.5	1.8	0.7	2.0	33.5	2.0	2,010
19T	1.5	1.8	0.7	2.1	36.4	2.2	2,370
24T	1.5	1.8	0.7	2.2	40.4	2.2	2,940
32T	1.5	1.8	0.7	2.5	46.7	2.6	3,980
1T	2.5	2.4	0.7	1.1	10.4	1.0	200
2T	2.5	2.4	0.7	1.4	17.2	1.2	490
3T	2.5	2.4	0.7	1.4	18.2	1.3	600
4T	2.5	2.4	0.7	1.5	20.2	1.3	760
5T	2.5	2.4	0.7	1.6	22.6	1.4	950
6T	2.5	2.4	0.7	1.7	25.7	1.6	1,170
7T	2.5	2.4	0.7	1.7	25.7	1.6	1,260
8T	2.5	2.4	0.7	1.7	27.5	1.6	1,420
10T	2.5	2.4	0.7	1.9	31.6	1.7	1,830
12T	2.5	2.4	0.7	2.0	33.6	1.7	2,140
14T	2.5	2.4	0.7	2.0	35.0	1.8	2,390
16T	2.5	2.4	0.7	2.1	37.4	1.8	2,730
19T	2.5	2.4	0.7	2.2	40.5	1.9	3,220
24T	2.5	2.4	0.7	2.4	45.2	2.2	4,060
32T	2.5	2.4	0.7	2.7	52.1	2.5	5,470

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

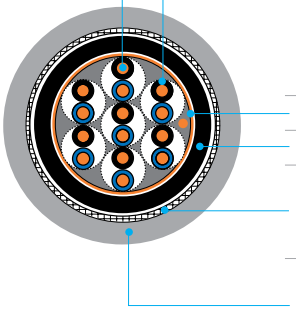
Cable Designation (S102)

250V RFOU(c)

Application Standard

- Design guide	: NEK-606 & IEC 60092-376
- Flame retardant	: IEC 60332-1 & IEC 60332-3 Category A
- Halogen content	: IEC 60754-1, 0.5% ↓
- Cold bend / impact	: CSA 22.2 No.03 (-40℃/-35℃)
- Mud / Oil resistant	: NEK-606 (Category a, b, c, d)
- Smoke light transmittance	: IEC 61034, 60% ↑
- Sunlight (UV) resistant	: UL 1581

Construction

Sectional view	Classification	Code	Construction detail
	Conductor	**FX-**	- Stranded tinned annealed copper wires as per IEC 60228, Class 2 - Option : Stranded tinned annealed copper wires as per IEC 60228, Class 5 (FX-added)
	Insulation	**R**	- EPR as per IEC 60092-360
	Twisting		- Two/Three Insulated cores shall be twisted together to form a pair/Triad
	Cabling		- Twisted pairs / triads shall be cabled - Flame retardant & non-hygroscopic fillers may be used - Suitable tape(s) may be applied on the cabled core - A Filler may be applied to obtain a circular Cable
	Collective screen	**(c)**	- CU/PS or AL/PS tape + Tinned copper drain wire
	Inner covering	**F**	- Flame retardant halogen free thermoset compound
	Armor	**O** **(B,C)**	- Braid of tinned copper wire (O) - Option : Bronze wire braid (B) /galvanized steel wire braid (C) - A suitable separator tape(s) may be applied under/over the armor
	Sheath	**U**	- SHF2 as per IEC 60092-360 - Option : NEK-606 (Category a, b, c, d) / Mud or oil resistant - Outer sheath color : Grey (Non-IS Type) or Blue (IS Type)
	Core identification		- Each Pair / Triad : Core color ① Pair : Black, Light blue ② Triad : Black, Light blue, Brown - Multi Pairs / Triads : Number printing on the insulation or numbered tape

Instrumentation & Communication Cable

250V RFOU(c), RFBU(c), RFCU(c) / Class2 Conductor
250V FX-RFOU(c), FX-RFBU(c), FX-RFCU(c) / Class5 Conductor

(PAIR TYPE)

No. of Pairs	Conductor		Thickness of Insulation	Thickness of inner covering	Nomina dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
1P	0.75	1.3	0.6	1.0	7.1	0.3	1.1	10.7	0.8	200
2P	0.75	1.3	0.6	1.0	10.4	0.3	1.3	14.3	0.9	330
3P	0.75	1.3	0.6	1.0	11.1	0.3	1.3	15.0	1.0	370
4P	0.75	1.3	0.6	1.0	11.8	0.3	1.3	15.7	1.0	410
5P	0.75	1.3	0.6	1.0	13.2	0.3	1.4	17.3	1.0	480
6P	0.75	1.3	0.6	1.0	14.2	0.3	1.4	18.3	1.2	530
7P	0.75	1.3	0.6	1.0	14.2	0.3	1.4	18.3	1.2	550
8P	0.75	1.3	0.6	1.0	15.2	0.3	1.5	19.3	1.3	610
10P	0.75	1.3	0.6	1.0	17.1	0.3	1.5	21.3	1.3	720
12P	0.75	1.3	0.6	1.0	17.8	0.3	1.6	22.1	1.4	790
14P	0.75	1.3	0.6	1.0	18.5	0.3	1.6	22.9	1.4	860
16P	0.75	1.3	0.6	1.0	20.0	0.3	1.7	24.4	1.5	970
19P	0.75	1.3	0.6	1.0	20.9	0.3	1.7	25.4	1.5	1,060
24P	0.75	1.3	0.6	1.0	23.8	0.3	1.8	28.5	1.7	1,300
32P	0.75	1.3	0.6	1.2	28.0	0.3	2.0	32.5	2.3	1,740
1P	1.0	1.5	0.6	1.0	7.5	0.3	1.2	11.2	0.9	220
2P	1.0	1.5	0.6	1.0	11.0	0.3	1.3	15.0	1.0	360
3P	1.0	1.5	0.6	1.0	11.8	0.3	1.3	15.8	1.0	400
4P	1.0	1.5	0.6	1.0	12.6	0.3	1.4	16.6	1.1	460
5P	1.0	1.5	0.6	1.0	14.2	0.3	1.4	18.3	1.2	540
6P	1.0	1.5	0.6	1.0	15.2	0.3	1.5	19.4	1.3	610
7P	1.0	1.5	0.6	1.0	15.2	0.3	1.5	19.4	1.3	630
8P	1.0	1.5	0.6	1.0	16.2	0.3	1.5	20.5	1.3	690
10P	1.0	1.5	0.6	1.0	18.3	0.3	1.6	22.7	1.3	830
12P	1.0	1.5	0.6	1.0	19.1	0.3	1.6	23.5	1.3	910
14P	1.0	1.5	0.6	1.0	19.9	0.3	1.6	24.3	1.4	980
16P	1.0	1.5	0.6	1.0	21.4	0.3	1.7	26.0	1.5	1,110
19P	1.0	1.5	0.6	1.0	22.5	0.3	1.8	27.1	1.6	1,230
24P	1.0	1.5	0.6	1.0	25.6	0.3	1.9	30.4	1.8	1,510
32P	1.0	1.5	0.6	1.2	30.0	0.3	2.1	35.1	2.0	2,020
1P	1.5	1.8	0.7	1.0	8.5	0.3	1.2	12.3	0.9	260
2P	1.5	1.8	0.7	1.0	12.7	0.3	1.4	16.8	1.1	440
3P	1.5	1.8	0.7	1.0	13.7	0.3	1.4	17.8	1.1	510
4P	1.5	1.8	0.7	1.0	14.6	0.3	1.4	18.7	1.1	570
5P	1.5	1.8	0.7	1.0	16.5	0.3	1.5	20.8	1.2	680
6P	1.5	1.8	0.7	1.0	17.7	0.3	1.6	22.1	1.4	770
7P	1.5	1.8	0.7	1.0	17.7	0.3	1.6	22.1	1.4	800
8P	1.5	1.8	0.7	1.0	18.9	0.3	1.6	23.4	1.4	880
10P	1.5	1.8	0.7	1.0	21.4	0.3	1.7	26.0	1.4	1,070
12P	1.5	1.8	0.7	1.0	22.4	0.3	1.7	27.0	1.5	1,170
14P	1.5	1.8	0.7	1.0	23.3	0.3	1.8	28.1	1.6	1,290
16P	1.5	1.8	0.7	1.0	25.1	0.3	1.9	30.0	1.7	1,460
19P	1.5	1.8	0.7	1.0	26.4	0.3	1.9	31.3	1.7	1,620
24P	1.5	1.8	0.7	1.2	30.9	0.4	2.1	36.4	2.1	2,210
32P	1.5	1.8	0.7	1.2	35.2	0.4	2.3	41.1	2.2	2,790
1P	2.5	2.4	0.7	1.0	9.3	0.3	1.2	13.1	0.8	300
2P	2.5	2.4	0.7	1.0	14.1	0.3	1.4	18.3	1.1	530
3P	2.5	2.4	0.7	1.0	15.2	0.3	1.5	19.4	1.2	630
4P	2.5	2.4	0.7	1.0	16.2	0.3	1.5	20.5	1.2	710
5P	2.5	2.4	0.7	1.0	18.3	0.3	1.6	22.8	1.3	860
6P	2.5	2.4	0.7	1.0	19.7	0.3	1.6	24.2	1.3	960
7P	2.5	2.4	0.7	1.0	19.7	0.3	1.6	24.2	1.3	1,010
8P	2.5	2.4	0.7	1.0	21.1	0.3	1.7	25.8	1.4	1,130
10P	2.5	2.4	0.7	1.0	23.9	0.3	1.8	28.7	1.5	1,380
12P	2.5	2.4	0.7	1.0	25.0	0.3	1.9	29.9	1.7	1,540
14P	2.5	2.4	0.7	1.0	26.0	0.3	1.9	31.0	1.7	1,690
16P	2.5	2.4	0.7	1.2	28.9	0.3	2.0	34.1	1.7	2,020
19P	2.5	2.4	0.7	1.2	30.3	0.4	2.1	35.7	2.1	2,340
24P	2.5	2.4	0.7	1.2	34.5	0.4	2.2	40.4	2.1	2,890
32P	2.5	2.4	0.7	1.4	39.8	0.4	2.5	46.1	2.3	3,770

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

250V RFOU(c), RFBU(c), RFCU(c) / Class2 Conductor
250V FX-RFOU(c), FX-RFBU(c), FX-RFCU(c) / Class5 Conductor

(TRIAD TYPE)

No. of Triads	Conductor		Thickness of Insulation	Thickness of inner covering	Nomina dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
1T	0.75	1.3	0.6	1.0	7.5	0.3	1.2	11.2	0.9	220
2T	0.75	1.3	0.6	1.0	11.4	0.3	1.3	15.3	1.0	380
3T	0.75	1.3	0.6	1.0	12.1	0.3	1.3	16.0	1.0	420
4T	0.75	1.3	0.6	1.0	13.3	0.3	1.4	17.4	1.0	500
5T	0.75	1.3	0.6	1.0	14.7	0.3	1.4	18.8	1.1	580
6T	0.75	1.3	0.6	1.0	16.7	0.3	1.5	20.9	1.2	690
7T	0.75	1.3	0.6	1.0	16.7	0.3	1.5	20.9	1.2	710
8T	0.75	1.3	0.6	1.0	17.9	0.3	1.6	22.2	1.4	800
10T	0.75	1.3	0.6	1.0	20.3	0.3	1.7	24.8	1.6	970
12T	0.75	1.3	0.6	1.0	21.5	0.3	1.7	26.1	1.6	1,070
14T	0.75	1.3	0.6	1.0	22.5	0.3	1.8	27.1	1.6	1,180
16T	0.75	1.3	0.6	1.0	23.9	0.3	1.8	28.6	1.6	1,300
19T	0.75	1.3	0.6	1.0	25.9	0.3	1.9	30.8	1.7	1,500
24T	0.75	1.3	0.6	1.2	29.5	0.3	2.0	34.5	1.9	1,900
32T	0.75	1.3	0.6	1.2	33.9	0.4	2.2	39.6	2.1	2,520
1T	1.0	1.5	0.6	1.0	7.9	0.3	1.2	11.7	0.9	240
2T	1.0	1.5	0.6	1.0	12.1	0.3	1.3	16.0	1.0	420
3T	1.0	1.5	0.6	1.0	12.9	0.3	1.4	17.0	1.0	480
4T	1.0	1.5	0.6	1.0	14.2	0.3	1.4	18.3	1.2	560
5T	1.0	1.5	0.6	1.0	15.7	0.3	1.5	20.0	1.2	660
6T	1.0	1.5	0.6	1.0	17.8	0.3	1.6	22.1	1.4	790
7T	1.0	1.5	0.6	1.0	17.8	0.3	1.6	22.1	1.4	820
8T	1.0	1.5	0.6	1.0	19.1	0.3	1.6	23.5	1.4	910
10T	1.0	1.5	0.6	1.0	21.7	0.3	1.7	26.3	1.5	1,100
12T	1.0	1.5	0.6	1.0	23.0	0.3	1.8	27.6	1.6	1,240
14T	1.0	1.5	0.6	1.0	24.0	0.3	1.8	28.7	1.6	1,360
16T	1.0	1.5	0.6	1.0	25.6	0.3	1.9	30.4	1.7	1,520
19T	1.0	1.5	0.6	1.2	28.5	0.3	2.0	33.1	2.3	1,850
24T	1.0	1.5	0.6	1.2	31.6	0.4	2.1	37.2	2.3	2,310
32T	1.0	1.5	0.6	1.2	36.3	0.4	2.3	42.2	2.3	2,940
1T	1.5	1.8	0.7	1.0	9.0	0.3	1.2	12.8	0.9	290
2T	1.5	1.8	0.7	1.0	14.0	0.3	1.4	18.2	1.0	520
3T	1.5	1.8	0.7	1.0	14.9	0.3	1.4	19.1	1.1	590
4T	1.5	1.8	0.7	1.0	16.5	0.3	1.5	20.8	1.1	710
5T	1.5	1.8	0.7	1.0	18.4	0.3	1.6	22.9	1.3	850
6T	1.5	1.8	0.7	1.0	20.9	0.3	1.7	25.5	1.4	1,020
7T	1.5	1.8	0.7	1.0	20.9	0.3	1.7	25.5	1.4	1,060
8T	1.5	1.8	0.7	1.0	22.4	0.3	1.7	27.0	1.4	1,180
10T	1.5	1.8	0.7	1.0	25.5	0.3	1.9	30.4	1.7	1,450
12T	1.5	1.8	0.7	1.2	27.9	0.3	2.0	32.5	2.0	1,750
14T	1.5	1.8	0.7	1.2	29.1	0.3	2.0	34.2	2.0	1,910
16T	1.5	1.8	0.7	1.2	31.0	0.4	2.1	36.7	2.0	2,220
19T	1.5	1.8	0.7	1.2	33.5	0.4	2.2	39.4	2.0	2,540
24T	1.5	1.8	0.7	1.2	37.2	0.4	2.4	43.3	2.2	3,080
32T	1.5	1.8	0.7	1.4	43.2	0.4	2.6	49.6	2.5	4,030
1T	2.5	2.4	0.7	1.0	9.8	0.3	1.2	13.6	0.8	340
2T	2.5	2.4	0.7	1.0	15.4	0.3	1.5	19.8	1.0	640
3T	2.5	2.4	0.7	1.0	16.5	0.3	1.5	20.9	1.0	750
4T	2.5	2.4	0.7	1.0	18.2	0.3	1.6	22.8	1.1	900
5T	2.5	2.4	0.7	1.0	20.3	0.3	1.7	25.1	1.2	1,080
6T	2.5	2.4	0.7	1.0	23.1	0.3	1.8	28.1	1.3	1,300
7T	2.5	2.4	0.7	1.0	23.1	0.3	1.8	28.1	1.3	1,360
8T	2.5	2.4	0.7	1.0	24.8	0.3	1.8	29.8	1.4	1,520
10T	2.5	2.4	0.7	1.2	29.1	0.3	2.0	34.5	1.5	1,990
12T	2.5	2.4	0.7	1.2	30.8	0.4	2.1	36.8	1.6	2,340
14T	2.5	2.4	0.7	1.2	32.2	0.4	2.2	38.2	1.8	2,590
16T	2.5	2.4	0.7	1.2	34.3	0.4	2.2	40.4	1.8	2,880
19T	2.5	2.4	0.7	1.2	37.1	0.4	2.4	43.5	1.9	3,340
24T	2.5	2.4	0.7	1.4	41.7	0.4	2.5	48.4	2.1	4,140
32T	2.5	2.4	0.7	1.4	47.9	0.4	2.8	55.2	2.3	5,340

Instrumentation & Communication Cable

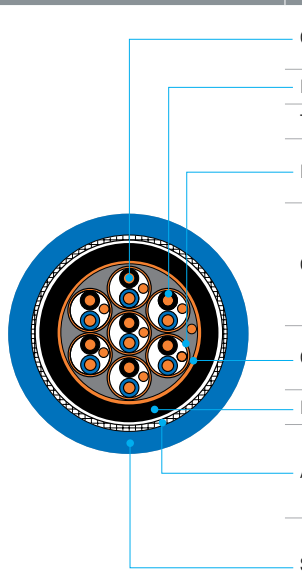
Cable Designation (S101)

250V RFOU(i), RFOU(i&c)

Application Standard

- Design guide	: NEK-606 & IEC 60092-376
- Flame retardant	: IEC 60332-1 & IEC 60332-3 Category A
- Halogen content	: IEC 60754-1, 0.5% ↓
- Cold bend / impact	: CSA 22.2 No.03 (-40℃/-35℃)
- Mud / Oil resistant	: NEK-606 (Category a, b, c, d)
- Smoke light transmittance	: IEC 61034, 60% ↑
- Sunlight (UV) resistant	: UL 1581

Construction

Sectional view	Classification	Code	Construction detail
	Conductor	FX-	- Stranded tinned annealed copper wires as per IEC 60228, Class 2 - Option : Stranded tinned annealed copper wires as per IEC 60228, Class 5 (FX-added)
	Insulation	R	- EPR as per IEC 60092-360
	Twisting		- Two/Three Insulated cores shall be twisted together to form a pair/Triad
	Individual screen	(i)	- CU/PS or AL/PS tape + Tinned copper drain wire - In case of 1P, 1T for 250V RFOU(i&c), individual screen is omitted
	Cabling		- Twisted pairs / triads shall be cabled - Flame retardant & non-hygroscopic fillers may be used - Suitable tape(s) may be applied on the cabled core - A Filler may be applied to obtain a circular Cable
	Collective screen	(c)	- CU/PS or AL/PS tape + Tinned copper drain wire - In case of 250V RFOU(i), collective screen is omitted
	Inner covering	F	- Flame retardant halogen free thermoset compound
	Armor	O (B,C)	- Braid of tinned copper wire (O) - Option : Bronze wire braid (B) /galvanized steel wire braid (C) - A suitable separator tape(s) may be applied under/over the armor
	Sheath	U	- SHF2 as per IEC 60092-360 - Option : NEK-606 (Category a, b, c, d) / Mud or oil resistant - Outer sheath color : Grey (Non-IS Type) or Blue (IS Type)
	Core identification		- Each Pair / Triad : Core color ① Pair : Black, Light blue ② Triad : Black, Light blue, Brown - Multi Pairs / Triads : Number printing on the insulation or numbered tape

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

250V RFOU(i), 250V RFOU(i&c), 250V RFBU(i), 250V RFBU(i&c), 250V RFCU(i), 250V RFCU(i&c) / Class2 Conductor
250V FX-RFOU(i), 250V FX-RFOU(i&c), 250V FX-RFBU(i), 250V FX-RFBU(i&c), 250V FX-RFCU(i), 250V FX-RFCU(i&c) / Class5 Conductor (PAIR TYPE)

No. of Pairs	Conductor		Thickness of Insulation	Thickness of inner covering	Nomina dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
1P	0.75	1.3	0.6	1.0	7.1	0.3	1.1	10.7	0.8	200
2P	0.75	1.3	0.6	1.0	11.1	0.3	1.3	15.1	0.9	370
3P	0.75	1.3	0.6	1.0	11.8	0.3	1.3	15.7	1.0	410
4P	0.75	1.3	0.6	1.0	12.9	0.3	1.4	17.0	1.0	490
5P	0.75	1.3	0.6	1.0	14.4	0.3	1.4	18.5	1.1	570
6P	0.75	1.3	0.6	1.0	15.0	0.3	1.5	19.2	1.3	620
7P	0.75	1.3	0.6	1.0	15.0	0.3	1.5	19.2	1.3	650
8P	0.75	1.3	0.6	1.0	16.5	0.3	1.5	20.7	1.3	730
10P	0.75	1.3	0.6	1.0	18.8	0.3	1.6	23.2	1.4	890
12P	0.75	1.3	0.6	1.0	19.5	0.3	1.6	23.9	1.4	970
14P	0.75	1.3	0.6	1.0	20.6	0.3	1.7	25.0	1.6	1,080
16P	0.75	1.3	0.6	1.0	22.1	0.3	1.7	26.6	1.6	1,200
19P	0.75	1.3	0.6	1.0	22.6	0.3	1.8	27.2	1.6	1,320
24P	0.75	1.3	0.6	1.0	26.4	0.3	1.9	31.3	1.8	1,650
32P	0.75	1.3	0.6	1.2	29.5	0.3	2.0	34.5	1.9	2,100
1P	1.0	1.5	0.6	1.0	7.5	0.3	1.2	11.2	0.9	220
2P	1.0	1.5	0.6	1.0	11.8	0.3	1.3	15.8	0.9	410
3P	1.0	1.5	0.6	1.0	12.5	0.3	1.4	16.6	1.1	470
4P	1.0	1.5	0.6	1.0	13.8	0.3	1.4	17.9	1.1	550
5P	1.0	1.5	0.6	1.0	15.4	0.3	1.5	19.6	1.3	650
6P	1.0	1.5	0.6	1.0	16.0	0.3	1.5	20.3	1.3	700
7P	1.0	1.5	0.6	1.0	16.0	0.3	1.5	20.3	1.3	730
8P	1.0	1.5	0.6	1.0	17.6	0.3	1.6	21.9	1.4	840
10P	1.0	1.5	0.6	1.0	20.1	0.3	1.7	24.6	1.6	1,030
12P	1.0	1.5	0.6	1.0	20.9	0.3	1.7	25.5	1.6	1,130
14P	1.0	1.5	0.6	1.0	22.0	0.3	1.7	26.6	1.6	1,240
16P	1.0	1.5	0.6	1.0	23.7	0.3	1.8	28.4	1.6	1,400
19P	1.0	1.5	0.6	1.0	24.2	0.3	1.8	28.9	1.6	1,520
24P	1.0	1.5	0.6	1.2	29.1	0.3	2.0	34.2	1.7	2,040
32P	1.0	1.5	0.6	1.2	31.6	0.4	2.1	37.2	1.9	2,550
1P	1.5	1.8	0.7	1.0	8.5	0.3	1.2	12.3	0.9	260
2P	1.5	1.8	0.7	1.0	13.6	0.3	1.4	17.7	1.0	500
3P	1.5	1.8	0.7	1.0	14.4	0.3	1.4	18.5	1.1	570
4P	1.5	1.8	0.7	1.0	15.9	0.3	1.5	20.2	1.2	670
5P	1.5	1.8	0.7	1.0	17.8	0.3	1.6	22.2	1.4	800
6P	1.5	1.8	0.7	1.0	18.5	0.3	1.6	23.0	1.4	880
7P	1.5	1.8	0.7	1.0	18.5	0.3	1.6	23.0	1.4	920
8P	1.5	1.8	0.7	1.0	20.4	0.3	1.7	24.9	1.5	1,050
10P	1.5	1.8	0.7	1.0	23.3	0.3	1.8	28.1	1.5	1,290
12P	1.5	1.8	0.7	1.0	24.3	0.3	1.8	29.1	1.6	1,420
14P	1.5	1.8	0.7	1.0	25.6	0.3	1.9	30.5	1.7	1,590
16P	1.5	1.8	0.7	1.2	28.4	0.3	2.0	33.0	2.1	1,900
19P	1.5	1.8	0.7	1.2	29.0	0.3	2.0	34.1	2.1	2,050
24P	1.5	1.8	0.7	1.2	33.9	0.4	2.2	39.7	2.1	2,710
32P	1.5	1.8	0.7	1.2	36.8	0.4	2.3	42.8	2.1	3,270
1P	2.5	2.4	0.7	1.0	9.3	0.3	1.2	13.1	0.8	300
2P	2.5	2.4	0.7	1.0	15.0	0.3	1.5	19.2	1.2	600
3P	2.5	2.4	0.7	1.0	15.9	0.3	1.5	20.2	1.2	700
4P	2.5	2.4	0.7	1.0	17.5	0.3	1.6	21.9	1.3	840
5P	2.5	2.4	0.7	1.0	19.7	0.3	1.6	24.2	1.3	1,000
6P	2.5	2.4	0.7	1.0	20.5	0.3	1.7	25.2	1.4	1,110
7P	2.5	2.4	0.7	1.0	20.5	0.3	1.7	25.2	1.4	1,170
8P	2.5	2.4	0.7	1.0	22.6	0.3	1.8	27.4	1.5	1,340
10P	2.5	2.4	0.7	1.0	25.9	0.3	1.9	30.9	1.5	1,660
12P	2.5	2.4	0.7	1.0	27.0	0.3	1.9	32.0	1.7	1,840
14P	2.5	2.4	0.7	1.2	29.3	0.3	2.0	34.5	1.7	2,170
16P	2.5	2.4	0.7	1.2	31.5	0.4	2.1	37.2	1.8	2,540
19P	2.5	2.4	0.7	1.2	32.2	0.4	2.2	38.0	2.0	2,790
24P	2.5	2.4	0.7	1.2	37.7	0.4	2.4	43.8	2.2	3,550
32P	2.5	2.4	0.7	1.4	41.4	0.4	2.5	47.8	2.3	4,410

Instrumentation & Communication Cable

250V RFOU(i), 250V RFOU(i&c), 250V RFBU(i), 250V RFBU(i&c), 250V RFCU(i), 250V RFCU(i&c) / Class2 Conductor
250V FX-RFOU(i), 250V FX-RFOU(i&c), 250V FX-RFBU(i), 250V FX-RFBU(i&c), 250V FX-RFCU(i), 250V FX-RFCU(i&c) / Class5 Conductor (TRIAD TYPE)

No. of Triads	Conductor		Thickness of Insulation	Thickness of inner covering	Nomina dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
1T	0.75	1.3	0.6	1.0	7.5	0.3	1.2	11.2	0.9	220
2T	0.75	1.3	0.6	1.0	11.9	0.3	1.3	15.8	1.0	410
3T	0.75	1.3	0.6	1.0	12.7	0.3	1.4	16.7	1.1	480
4T	0.75	1.3	0.6	1.0	13.9	0.3	1.4	18.0	1.1	560
5T	0.75	1.3	0.6	1.0	15.5	0.3	1.5	19.8	1.2	660
6T	0.75	1.3	0.6	1.0	17.5	0.3	1.6	21.9	1.4	780
7T	0.75	1.3	0.6	1.0	17.5	0.3	1.6	21.9	1.4	820
8T	0.75	1.3	0.6	1.0	18.8	0.3	1.6	23.2	1.4	910
10T	0.75	1.3	0.6	1.0	21.3	0.3	1.7	25.9	1.5	1,100
12T	0.75	1.3	0.6	1.0	22.6	0.3	1.8	27.3	1.6	1,240
14T	0.75	1.3	0.6	1.0	23.6	0.3	1.8	28.4	1.6	1,360
16T	0.75	1.3	0.6	1.0	25.2	0.3	1.9	30.0	1.8	1,520
19T	0.75	1.3	0.6	1.2	28.0	0.3	2.0	32.6	2.2	1,850
24T	0.75	1.3	0.6	1.2	31.1	0.4	2.1	36.7	2.2	2,310
32T	0.75	1.3	0.6	1.2	35.7	0.4	2.3	41.5	2.3	2,940
1T	1.0	1.5	0.6	1.0	7.9	0.3	1.2	11.7	0.9	240
2T	1.0	1.5	0.6	1.0	12.6	0.3	1.4	16.7	1.1	460
3T	1.0	1.5	0.6	1.0	13.4	0.3	1.4	17.5	1.1	530
4T	1.0	1.5	0.6	1.0	14.8	0.3	1.4	18.9	1.1	630
5T	1.0	1.5	0.6	1.0	16.4	0.3	1.5	20.7	1.1	740
6T	1.0	1.5	0.6	1.0	18.6	0.3	1.6	23.1	1.3	890
7T	1.0	1.5	0.6	1.0	18.6	0.3	1.6	23.1	1.3	930
8T	1.0	1.5	0.6	1.0	20.0	0.3	1.7	24.5	1.4	1,040
10T	1.0	1.5	0.6	1.0	22.7	0.3	1.8	27.4	1.6	1,270
12T	1.0	1.5	0.6	1.0	24.1	0.3	1.8	28.9	1.6	1,430
14T	1.0	1.5	0.6	1.0	25.2	0.3	1.9	30.0	1.7	1,580
16T	1.0	1.5	0.6	1.0	26.8	0.3	1.9	31.7	1.7	1,750
19T	1.0	1.5	0.6	1.2	29.9	0.3	2.0	34.9	1.9	2,130
24T	1.0	1.5	0.6	1.2	33.1	0.4	2.2	38.9	2.0	2,680
32T	1.0	1.5	0.6	1.4	38.4	0.4	2.4	44.3	2.6	3,500
1T	1.5	1.8	0.7	1.0	9.0	0.3	1.2	12.8	0.9	290
2T	1.5	1.8	0.7	1.0	14.5	0.3	1.4	18.7	1.1	560
3T	1.5		0.7	1.0	15.5	0.3	1.5	19.8	1.1	660
4T	1.5	1.8	0.7	1.0	17.1	0.3	1.5	21.4	1.1	780
5T	1.5	1.8	0.7	1.0	19.1	0.3	1.6	23.6	1.3	940
6T	1.5	1.8	0.7	1.0	21.7	0.3	1.7	26.3	1.4	1,120
7T	1.5	1.8	0.7	1.0	21.7	0.3	1.7	26.3	1.4	1,180
8T	1.5	1.8	0.7	1.0	23.3	0.3	1.8	28.1	1.5	1,330
10T	1.5	1.8	0.7	1.0	26.6	0.3	1.9	31.6	1.7	1,630
12T	1.5	1.8	0.7	1.2	29.0	0.3	2.0	34.1	1.7	1,950
14T	1.5	1.8	0.7	1.2	30.3	0.4	2.1	35.7	2.1	2,240
16T	1.5	1.8	0.7	1.2	32.2	0.4	2.2	38.0	2.1	2,500
19T	1.5	1.8	0.7	1.2	34.9	0.4	2.3	40.9	2.1	2,880
24T	1.5	1.8	0.7	1.4	39.1	0.4	2.4	45.1	2.4	3,550
32T	1.5	1.8	0.7	1.4	45.0	0.4	2.7	51.6	2.6	4,580
1T	2.5	2.4	0.7	1.0	9.8	0.3	1.2	13.6	0.8	340
2T	2.5	2.4	0.7	1.0	16.0	0.3	1.5	20.4	1.0	690
3T	2.5	2.4	0.7	1.0	17.0	0.3	1.5	21.4	1.0	820
4T	2.5	2.4	0.7	1.0	18.8	0.3	1.6	23.4	1.1	990
5T	2.5	2.4	0.7	1.0	21.0	0.3	1.7	25.8	1.2	1,190
6T	2.5	2.4	0.7	1.0	23.9	0.3	1.8	28.9	1.4	1,430
7T	2.5	2.4	0.7	1.0	23.9	0.3	1.8	28.9	1.4	1,510
8T	2.5	2.4	0.7	1.0	25.7	0.3	1.9	30.9	1.4	1,710
10T	2.5	2.4	0.7	1.2	30.1	0.4	2.1	35.8	1.8	2,310
12T	2.5	2.4	0.7	1.2	32.0	0.4	2.1	37.9	1.8	2,610
14T	2.5	2.4	0.7	1.2	33.4	0.4	2.2	39.5	1.8	2,900
16T	2.5	2.4	0.7	1.2	35.6	0.4	2.3	41.9	1.8	3,250
19T	2.5	2.4	0.7	1.4	38.9	0.4	2.4	45.4	1.9	3,830
24T	2.5	2.4	0.7	1.4	43.2	0.4	2.6	50.1	2.1	4,670
32T	2.5	2.4	0.7	1.6	50.3	0.4	2.9	57.7	2.3	6,200

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

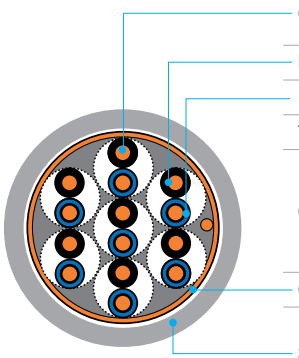
Cable Designation (S108)

250V BU(c)

Application Standard

- Design guide	: NEK-606 & IEC 60092-376
- Flame retardant	: IEC 60332-1 & IEC 60332-3 Category A
- Fire resistance	: IEC 60331-21(90min) & IEC 60331-1,-2(120min) Option : EN 50200(15min) / BS 8491(5min)
- Halogen content	: IEC 60754-1, 0.5% ↓
- Cold bend / impact	: CSA 22.2 No.03 (-40℃/-35℃)
- Mud / Oil resistant	: NEK-606 (Category a, b, c, d)
- Smoke light transmittance	: IEC 61034, 60% ↑
- Sunlight (UV) resistant	: UL 1581

Construction

Sectional view	Classification	Code	Construction detail
	Conductor	FX-	- Stranded tinned annealed copper wires as per IEC 60228, Class 2 - Option : Stranded tinned annealed copper wires as per IEC 60228, Class 5 (FX-added)
	Fire resisting layer	B	- Mica/glass tape
	Insulation		- EPR as per IEC 60092-360
	Twisting		- Two/Three Insulated cores shall be twisted together to form a pair/Triad
	Cabling		- Twisted pairs / triads shall be cabled - Flame retardant & non-hygroscopic fillers may be used - Suitable tape(s) may be applied on the cabled core - A Filler may be applied to obtain a circular Cable
	Collective screen	(c)	- CU/PS or AL/PS tape + Tinned copper drain wire
	Sheath	U	- SHF2 as per IEC 60092-360 - Option : NEK-606 (Category a, b, c, d) / Mud or oil resistant - Outer sheath color : Grey (Non-IS Type) or Blue (IS Type)
	Core identification		- Each Pair / Triad : Core color ① Pair : Black, Light blue ② Triad : Black, Light blue, Brown - Multi Pairs / Triads : Number printing on the insulation or numbered tape

Instrumentation & Communication Cable

250V BU(c) / Class2 Conductor
250V FX-BU(c) / Class5 Conductor

(PAIR TYPE)

No. of Pairs	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	±mm	kg/km
1P	0.75	1.3	0.6	1.0	8.6	0.9	110
2P	0.75	1.3	0.6	1.2	13.0	1.0	220
3P	0.75	1.3	0.6	1.2	13.8	1.0	260
4P	0.75	1.3	0.6	1.3	14.9	1.1	310
5P	0.75	1.3	0.6	1.3	16.6	1.1	380
6P	0.75	1.3	0.6	1.4	18.0	1.1	450
7P	0.75	1.3	0.6	1.4	18.0	1.1	460
8P	0.75	1.3	0.6	1.4	19.2	1.2	520
10P	0.75	1.3	0.6	1.5	21.7	1.3	660
12P	0.75	1.3	0.6	1.6	22.8	1.3	740
14P	0.75	1.3	0.6	1.6	23.6	1.3	810
16P	0.75	1.3	0.6	1.7	25.6	1.4	950
19P	0.75	1.3	0.6	1.7	26.7	1.4	1,050
24P	0.75	1.3	0.6	1.9	30.6	1.5	1,370
32P	0.75	1.3	0.6	2.0	34.9	1.7	1,780
1P	1.0	1.5	0.6	1.1	9.2	0.9	130
2P	1.0	1.5	0.6	1.2	13.6	1.0	250
3P	1.0	1.5	0.6	1.3	14.8	1.1	310
4P	1.0	1.5	0.6	1.3	15.7	1.1	350
5P	1.0	1.5	0.6	1.4	17.8	1.1	450
6P	1.0	1.5	0.6	1.4	19.0	1.2	510
7P	1.0	1.5	0.6	1.4	19.0	1.2	530
8P	1.0	1.5	0.6	1.5	20.4	1.2	610
10P	1.0	1.5	0.6	1.6	23.1	1.3	770
12P	1.0	1.5	0.6	1.6	24.1	1.3	850
14P	1.0	1.5	0.6	1.7	25.2	1.4	960
16P	1.0	1.5	0.6	1.7	27.0	1.4	1,090
19P	1.0	1.5	0.6	1.8	28.5	1.5	1,240
24P	1.0	1.5	0.6	1.9	32.4	1.6	1,580
32P	1.0	1.5	0.6	2.1	37.1	1.7	2,090
1P	1.5	1.8	0.7	1.1	10.1	1.0	160
2P	1.5	1.8	0.7	1.3	15.5	1.2	320
3P	1.5	1.8	0.7	1.3	16.5	1.2	380
4P	1.5	1.8	0.7	1.4	17.8	1.2	460
5P	1.5	1.8	0.7	1.5	20.2	1.4	580
6P	1.5	1.8	0.7	1.5	21.6	1.4	660
7P	1.5	1.8	0.7	1.5	21.6	1.4	700
8P	1.5	1.8	0.7	1.6	23.2	1.4	800
10P	1.5	1.8	0.7	1.7	26.3	1.6	1,010
12P	1.5	1.8	0.7	1.7	27.4	1.6	1,120
14P	1.5	1.8	0.7	1.8	28.6	1.7	1,260
16P	1.5	1.8	0.7	1.9	31.0	1.7	1,460
19P	1.5	1.8	0.7	1.9	32.4	1.8	1,640
24P	1.5	1.8	0.7	2.1	37.1	1.9	2,130
32P	1.5	1.8	0.7	2.3	42.5	2.2	2,820
1P	2.5	2.4	0.7	1.1	11.0	1.0	190
2P	2.5	2.4	0.7	1.4	17.1	1.1	410
3P	2.5	2.4	0.7	1.4	18.3	1.2	500
4P	2.5	2.4	0.7	1.4	19.5	1.2	590
5P	2.5	2.4	0.7	1.5	22.1	1.3	740
6P	2.5	2.4	0.7	1.6	23.9	1.3	870
7P	2.5	2.4	0.7	1.6	23.9	1.3	920
8P	2.5	2.4	0.7	1.7	25.7	1.4	1,050
10P	2.5	2.4	0.7	1.8	29.1	1.5	1,330
12P	2.5	2.4	0.7	1.8	30.3	1.5	1,490
14P	2.5	2.4	0.7	1.9	31.7	1.6	1,680
16P	2.5	2.4	0.7	2.0	34.3	1.6	1,940
19P	2.5	2.4	0.7	2.1	36.1	1.7	2,220
24P	2.5	2.4	0.7	2.2	41.1	1.8	2,830
32P	2.5	2.4	0.7	2.5	47.3	2.0	3,800

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

250V BU(c) / Class2 Conductor
250V FX-BU(c) / Class5 Conductor

(TRIAD TYPE)

No. of Triads	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	±mm	kg/km
1T	0.75	1.3	0.6	1.1	9.2	0.9	130
2T	0.75	1.3	0.6	1.2	14.0	1.0	270
3T	0.75	1.3	0.6	1.3	15.1	1.1	330
4T	0.75	1.3	0.6	1.3	16.5	1.1	400
5T	0.75	1.3	0.6	1.4	18.5	1.2	490
6T	0.75	1.3	0.6	1.5	21.0	1.2	620
7T	0.75	1.3	0.6	1.5	21.0	1.2	640
8T	0.75	1.3	0.6	1.6	22.6	1.3	740
10T	0.75	1.3	0.6	1.7	25.7	1.4	940
12T	0.75	1.3	0.6	1.7	27.1	1.4	1,060
14T	0.75	1.3	0.6	1.8	28.5	1.5	1,200
16T	0.75	1.3	0.6	1.8	30.2	1.5	1,340
19T	0.75	1.3	0.6	1.9	32.7	1.6	1,580
24T	0.75	1.3	0.6	2.1	36.5	1.7	1,990
32T	0.75	1.3	0.6	2.3	42.1	1.9	2,660
1T	1.0	1.5	0.6	1.1	9.7	0.9	150
2T	1.0	1.5	0.6	1.3	15.1	1.1	320
3T	1.0	1.5	0.6	1.3	16.0	1.1	380
4T	1.0	1.5	0.6	1.4	17.8	1.1	470
5T	1.0	1.5	0.6	1.5	19.9	1.2	580
6T	1.0	1.5	0.6	1.6	22.6	1.3	730
7T	1.0	1.5	0.6	1.6	22.6	1.3	760
8T	1.0	1.5	0.6	1.6	24.1	1.3	860
10T	1.0	1.5	0.6	1.7	27.4	1.4	1,090
12T	1.0	1.5	0.6	1.8	29.2	1.5	1,260
14T	1.0	1.5	0.6	1.9	30.6	1.5	1,410
16T	1.0	1.5	0.6	1.9	32.5	1.6	1,590
19T	1.0	1.5	0.6	2.0	35.2	1.7	1,870
24T	1.0	1.5	0.6	2.2	39.3	1.8	2,360
32T	1.0	1.5	0.6	2.4	45.3	2.0	3,150
1T	1.5	1.8	0.7	1.1	10.7	1.0	180
2T	1.5	1.8	0.7	1.4	17.2	1.2	410
3T	1.5	1.8	0.7	1.4	18.2	1.3	490
4T	1.5	1.8	0.7	1.5	20.2	1.3	610
5T	1.5	1.8	0.7	1.6	22.6	1.4	760
6T	1.5	1.8	0.7	1.7	25.7	1.6	950
7T	1.5	1.8	0.7	1.7	25.7	1.6	1,000
8T	1.5	1.8	0.7	1.7	27.5	1.6	1,130
10T	1.5	1.8	0.7	1.9	31.5	1.8	1,460
12T	1.5	1.8	0.7	2.0	33.5	1.8	1,700
14T	1.5	1.8	0.7	2.0	34.9	1.9	1,880
16T	1.5	1.8	0.7	2.1	37.3	1.9	2,150
19T	1.5	1.8	0.7	2.2	40.4	2.0	2,530
24T	1.5	1.8	0.7	2.4	45.1	2.3	3,190
32T	1.5	1.8	0.7	2.7	52.0	2.6	4,310
1T	2.5	2.4	0.7	1.2	11.8	1.1	240
2T	2.5	2.4	0.7	1.4	18.7	1.2	510
3T	2.5	2.4	0.7	1.5	20.1	1.2	640
4T	2.5	2.4	0.7	1.5	22.1	1.3	790
5T	2.5	2.4	0.7	1.6	24.7	1.4	980
6T	2.5	2.4	0.7	1.8	28.2	1.5	1,240
7T	2.5	2.4	0.7	1.8	28.2	1.5	1,310
8T	2.5	2.4	0.7	1.8	30.2	1.5	1,490
10T	2.5	2.4	0.7	2.0	34.6	1.6	1,920
12T	2.5	2.4	0.7	2.1	36.8	1.7	2,230
14T	2.5	2.4	0.7	2.1	38.4	1.8	2,480
16T	2.5	2.4	0.7	2.2	41.0	1.8	2,840
19T	2.5	2.4	0.7	2.4	44.6	1.9	3,390
24T	2.5	2.4	0.7	2.6	49.8	2.1	4,280
32T	2.5	2.4	0.7	2.9	57.6	2.3	5,770

Instrumentation & Communication Cable

250V BU(c) (Fire resistant with water) / Class2 Conductor
250V FX-BU(c) (Fire resistant with water) / Class5 Conductor

(PAIR TYPE)

No. of Pairs	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	±mm	kg/km
1P	0.75	1.3	0.6	1.0	8.6	0.9	110
2P	0.75	1.3	0.6	1.2	13.0	1.0	220
3P	0.75	1.3	0.6	1.2	13.8	1.0	260
4P	0.75	1.3	0.6	1.3	14.9	1.1	310
5P	0.75	1.3	0.6	1.3	16.6	1.1	380
6P	0.75	1.3	0.6	1.4	18.0	1.1	450
7P	0.75	1.3	0.6	1.4	18.0	1.1	460
8P	0.75	1.3	0.6	1.4	19.2	1.2	520
10P	0.75	1.3	0.6	1.5	21.7	1.3	660
12P	0.75	1.3	0.6	1.6	22.8	1.3	740
14P	0.75	1.3	0.6	1.6	23.6	1.3	810
16P	0.75	1.3	0.6	1.7	25.6	1.4	950
19P	0.75	1.3	0.6	1.7	26.7	1.4	1,050
24P	0.75	1.3	0.6	1.9	30.6	1.5	1,370
32P	0.75	1.3	0.6	2.0	34.9	1.7	1,780
1P	1.0	1.5	0.6	1.1	9.2	0.9	130
2P	1.0	1.5	0.6	1.2	13.6	1.0	250
3P	1.0	1.5	0.6	1.3	14.8	1.1	310
4P	1.0	1.5	0.6	1.3	15.7	1.1	350
5P	1.0	1.5	0.6	1.4	17.8	1.1	450
6P	1.0	1.5	0.6	1.4	19.0	1.2	510
7P	1.0	1.5	0.6	1.4	19.0	1.2	530
8P	1.0	1.5	0.6	1.5	20.4	1.2	610
10P	1.0	1.5	0.6	1.6	23.1	1.3	770
12P	1.0	1.5	0.6	1.6	24.1	1.3	850
14P	1.0	1.5	0.6	1.7	25.2	1.4	960
16P	1.0	1.5	0.6	1.7	27.0	1.4	1,090
19P	1.0	1.5	0.6	1.8	28.5	1.5	1,240
24P	1.0	1.5	0.6	1.9	32.4	1.6	1,580
32P	1.0	1.5	0.6	2.1	37.1	1.7	2,090
1P	1.5	1.8	0.7	1.1	10.1	1.0	160
2P	1.5	1.8	0.7	1.3	15.5	1.2	320
3P	1.5	1.8	0.7	1.3	16.5	1.2	380
4P	1.5	1.8	0.7	1.4	17.8	1.2	460
5P	1.5	1.8	0.7	1.5	20.2	1.4	580
6P	1.5	1.8	0.7	1.5	21.6	1.4	660
7P	1.5	1.8	0.7	1.5	21.6	1.4	700
8P	1.5	1.8	0.7	1.6	23.2	1.4	800
10P	1.5	1.8	0.7	1.7	26.3	1.6	1,010
12P	1.5	1.8	0.7	1.7	27.4	1.6	1,120
14P	1.5	1.8	0.7	1.8	28.6	1.7	1,260
16P	1.5	1.8	0.7	1.9	31.0	1.7	1,460
19P	1.5	1.8	0.7	1.9	32.4	1.8	1,640
24P	1.5	1.8	0.7	2.1	37.1	1.9	2,130
32P	1.5	1.8	0.7	2.3	42.5	2.2	2,820
1P	2.5	2.4	0.7	1.1	11.0	1.0	190
2P	2.5	2.4	0.7	1.4	17.1	1.1	410
3P	2.5	2.4	0.7	1.4	18.3	1.2	500
4P	2.5	2.4	0.7	1.4	19.5	1.2	590
5P	2.5	2.4	0.7	1.5	22.1	1.3	740
6P	2.5	2.4	0.7	1.6	23.9	1.3	870
7P	2.5	2.4	0.7	1.6	23.9	1.3	920
8P	2.5	2.4	0.7	1.7	25.7	1.4	1,050
10P	2.5	2.4	0.7	1.8	29.1	1.5	1,330
12P	2.5	2.4	0.7	1.8	30.3	1.5	1,490
14P	2.5	2.4	0.7	1.9	31.7	1.6	1,680
16P	2.5	2.4	0.7	2.0	34.3	1.6	1,940
19P	2.5	2.4	0.7	2.1	36.1	1.7	2,220
24P	2.5	2.4	0.7	2.2	41.1	1.8	2,830
32P	2.5	2.4	0.7	2.5	47.3	2.0	3,800

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

250V BU(c) (Fire resistant with water) / Class2 Conductor
250V FX-BU(c) (Fire resistant with water) / Class5 Conductor

(TRIAD TYPE)

No. of Triads	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	±mm	kg/km
1T	0.75	1.3	0.6	1.1	9.2	0.9	130
2T	0.75	1.3	0.6	1.2	14.0	1.0	270
3T	0.75	1.3	0.6	1.3	15.1	1.1	330
4T	0.75	1.3	0.6	1.3	16.5	1.1	400
5T	0.75	1.3	0.6	1.4	18.5	1.2	490
6T	0.75	1.3	0.6	1.5	21.0	1.2	620
7T	0.75	1.3	0.6	1.5	21.0	1.2	640
8T	0.75	1.3	0.6	1.6	22.6	1.3	740
10T	0.75	1.3	0.6	1.7	25.7	1.4	940
12T	0.75	1.3	0.6	1.7	27.1	1.4	1,060
14T	0.75	1.3	0.6	1.8	28.5	1.5	1,200
16T	0.75	1.3	0.6	1.8	30.2	1.5	1,340
19T	0.75	1.3	0.6	1.9	32.7	1.6	1,580
24T	0.75	1.3	0.6	2.1	36.5	1.7	1,990
32T	0.75	1.3	0.6	2.3	42.1	1.9	2,660
1T	1.0	1.5	0.6	1.1	9.7	0.9	150
2T	1.0	1.5	0.6	1.3	15.1	1.1	320
3T	1.0	1.5	0.6	1.3	16.0	1.1	380
4T	1.0	1.5	0.6	1.4	17.8	1.1	470
5T	1.0	1.5	0.6	1.5	19.9	1.2	580
6T	1.0	1.5	0.6	1.6	22.6	1.3	730
7T	1.0	1.5	0.6	1.6	22.6	1.3	760
8T	1.0	1.5	0.6	1.6	24.1	1.3	860
10T	1.0	1.5	0.6	1.7	27.4	1.4	1,090
12T	1.0	1.5	0.6	1.8	29.2	1.5	1,260
14T	1.0	1.5	0.6	1.9	30.6	1.5	1,410
16T	1.0	1.5	0.6	1.9	32.5	1.6	1,590
19T	1.0	1.5	0.6	2.0	35.2	1.7	1,870
24T	1.0	1.5	0.6	2.2	39.3	1.8	2,360
32T	1.0	1.5	0.6	2.4	45.3	2.0	3,150
1T	1.5	1.8	0.7	1.1	10.7	1.0	180
2T	1.5	1.8	0.7	1.4	17.2	1.2	410
3T	1.5	1.8	0.7	1.4	18.2	1.3	490
4T	1.5	1.8	0.7	1.5	20.2	1.3	610
5T	1.5	1.8	0.7	1.6	22.6	1.4	760
6T	1.5	1.8	0.7	1.7	25.7	1.6	950
7T	1.5	1.8	0.7	1.7	25.7	1.6	1,000
8T	1.5	1.8	0.7	1.7	27.5	1.6	1,130
10T	1.5	1.8	0.7	1.9	31.5	1.8	1,460
12T	1.5	1.8	0.7	2.0	33.5	1.8	1,700
14T	1.5	1.8	0.7	2.0	34.9	1.9	1,880
16T	1.5	1.8	0.7	2.1	37.3	1.9	2,150
19T	1.5	1.8	0.7	2.2	40.4	2.0	2,530
24T	1.5	1.8	0.7	2.4	45.1	2.3	3,190
32T	1.5	1.8	0.7	2.7	52.0	2.6	4,310
1T	2.5	2.4	0.7	1.2	11.8	1.1	240
2T	2.5	2.4	0.7	1.4	18.7	1.2	510
3T	2.5	2.4	0.7	1.5	20.1	1.2	640
4T	2.5	2.4	0.7	1.5	22.1	1.3	790
5T	2.5	2.4	0.7	1.6	24.7	1.4	980
6T	2.5	2.4	0.7	1.8	28.2	1.5	1,240
7T	2.5	2.4	0.7	1.8	28.2	1.5	1,310
8T	2.5	2.4	0.7	1.8	30.2	1.5	1,490
10T	2.5	2.4	0.7	2.0	34.6	1.6	1,920
12T	2.5	2.4	0.7	2.1	36.8	1.7	2,230
14T	2.5	2.4	0.7	2.1	38.4	1.8	2,480
16T	2.5	2.4	0.7	2.2	41.0	1.8	2,840
19T	2.5	2.4	0.7	2.4	44.6	1.9	3,390
24T	2.5	2.4	0.7	2.6	49.8	2.1	4,280
32T	2.5	2.4	0.7	2.9	57.6	2.3	5,770

Instrumentation & Communication Cable

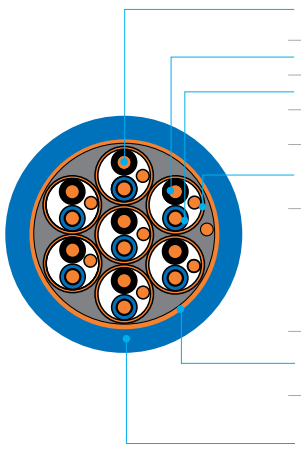
Cable Designation (S107)

250V BU(i), 250V BU(i&c)

Application Standard

- Design guide	: NEK-606 & IEC 60092-376
- Flame retardant	: IEC 60332-1 & IEC 60332-3 Category A
- Fire resistance	: IEC 60331-21(90min) & IEC 60331-1,-2(120min) Option : EN 50200(15min) / BS 8491(5min)
- Halogen content	: IEC 60754-1, 0.5% ↓
- Cold bend / impact	: CSA 22.2 No.03 (-40℃/-35℃)
- Mud / Oil resistant	: NEK-606 (Category a, b, c, d)
- Smoke light transmittance	: IEC 61034, 60% ↑
- Sunlight (UV) resistant	: UL 1581

Construction

Sectional view	Classification	Code	Construction detail
	Conductor	FX-	- Stranded tinned annealed copper wires as per IEC 60228, Class 2 - Option : Stranded tinned annealed copper wires as per IEC 60228, Class 5 (FX-added)
	Fire resisting layer	B	- Mica/glass tape
	Insulation		- EPR as per IEC 60092-360
	Twisting		- Two/Three Insulated cores shall be twisted together to form a pair/Triad
	Individual screen	(i)	- CU/PS or AL/PS tape + Tinned copper drain wire - In case of 1P, 1T for 250V BU(i&c), individual screen is omitted
	Cabling		- Twisted pairs / triads shall be cabled - Flame retardant & non-hygroscopic fillers may be used - Suitable tape(s) may be applied on the cabled core - A Filler may be applied to obtain a circular Cable
	Collective screen	(c)	- CU/PS or AL/PS tape + Tinned copper drain wire - In case of 250V BU(i), collective screen is omitted
	Sheath	U	- SHF2 as per IEC 60092-360 - Option : NEK-606 (Category a, b, c, d) / Mud or oil resistant - Outer sheath color : Grey (Non-IS Type) or Blue (IS Type)
	Core identification		- Each Pair / Triad : Core color ① Pair : Black, Light blue ② Triad : Black, Light blue, Brown - Multi Pairs / Triads : Number printing on the insulation or numbered tape

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

250V BU(i), 250V BU(i&c) / Class2 Conductor
250V FX-BU(i), 250V FX-BU(i&c) / Class5 Conductor

(PAIR TYPE)

No. of Pairs	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	±mm	kg/km
1P	0.75	1.3	0.6	1.0	8.6	0.9	110
2P	0.75	1.3	0.6	1.2	13.8	1.0	260
3P	0.75	1.3	0.6	1.3	14.8	1.1	320
4P	0.75	1.3	0.6	1.3	16.1	1.1	380
5P	0.75	1.3	0.6	1.4	18.1	1.2	480
6P	0.75	1.3	0.6	1.4	18.8	1.2	530
7P	0.75	1.3	0.6	1.4	18.8	1.2	560
8P	0.75	1.3	0.6	1.5	20.8	1.2	660
10P	0.75	1.3	0.6	1.6	23.7	1.3	840
12P	0.75	1.3	0.6	1.6	24.6	1.3	930
14P	0.75	1.3	0.6	1.7	26.1	1.4	1,060
16P	0.75	1.3	0.6	1.8	28.1	1.5	1,230
19P	0.75	1.3	0.6	1.8	28.7	1.5	1,340
24P	0.75	1.3	0.6	2.0	33.7	1.6	1,790
32P	0.75	1.3	0.6	2.1	36.6	1.7	2,210
1P	1.0	1.5	0.6	1.1	9.2	0.9	130
2P	1.0	1.5	0.6	1.3	14.7	1.1	300
3P	1.0	1.5	0.6	1.3	15.5	1.1	360
4P	1.0	1.5	0.6	1.4	17.2	1.1	450
5P	1.0	1.5	0.6	1.4	19.1	1.2	540
6P	1.0	1.5	0.6	1.5	20.0	1.2	620
7P	1.0	1.5	0.6	1.5	20.0	1.2	650
8P	1.0	1.5	0.6	1.5	21.9	1.3	760
10P	1.0	1.5	0.6	1.7	25.2	1.4	980
12P	1.0	1.5	0.6	1.7	26.2	1.4	1,090
14P	1.0	1.5	0.6	1.7	27.5	1.4	1,220
16P	1.0	1.5	0.6	1.8	29.7	1.5	1,420
19P	1.0	1.5	0.6	1.8	30.3	1.5	1,550
24P	1.0	1.5	0.6	2.0	35.6	1.7	2,060
32P	1.0	1.5	0.6	2.2	38.9	1.8	2,600
1P	1.5	1.8	0.7	1.1	10.1	1.0	160
2P	1.5	1.8	0.7	1.3	16.4	1.2	370
3P	1.5	1.8	0.7	1.4	17.5	1.2	460
4P	1.5	1.8	0.7	1.4	19.2	1.4	560
5P	1.5	1.8	0.7	1.5	21.6	1.4	690
6P	1.5	1.8	0.7	1.6	22.5	1.6	790
7P	1.5	1.8	0.7	1.6	22.5	1.6	830
8P	1.5	1.8	0.7	1.6	24.8	1.6	960
10P	1.5	1.8	0.7	1.8	28.6	1.7	1,250
12P	1.5	1.8	0.7	1.8	29.7	1.7	1,400
14P	1.5	1.8	0.7	1.9	31.3	1.8	1,590
16P	1.5	1.8	0.7	2.0	33.8	1.8	1,840
19P	1.5	1.8	0.7	2.0	34.5	1.9	2,020
24P	1.5	1.8	0.7	2.2	40.5	2.0	2,680
32P	1.5	1.8	0.7	2.4	44.2	2.3	3,380
1P	2.5	2.4	0.7	1.1	11.0	1.0	190
2P	2.5	2.4	0.7	1.4	18.0	1.1	470
3P	2.5	2.4	0.7	1.4	19.1	1.2	570
4P	2.5	2.4	0.7	1.5	21.1	1.2	720
5P	2.5	2.4	0.7	1.6	23.8	1.3	900
6P	2.5	2.4	0.7	1.6	24.7	1.4	1,000
7P	2.5	2.4	0.7	1.6	24.7	1.4	1,060
8P	2.5	2.4	0.7	1.7	27.3	1.4	1,260
10P	2.5	2.4	0.7	1.9	31.5	1.6	1,630
12P	2.5	2.4	0.7	1.9	32.7	1.6	1,830
14P	2.5	2.4	0.7	2.0	34.6	1.6	2,090
16P	2.5	2.4	0.7	2.1	37.3	1.7	2,420
19P	2.5	2.4	0.7	2.1	38.1	1.8	2,660
24P	2.5	2.4	0.7	2.4	44.9	2.0	3,570
32P	2.5	2.4	0.7	2.5	48.9	2.1	4,470

Instrumentation & Communication Cable

250V BU(i), 250V BU(i&c) / Class2 Conductor
250V FX-BU(i), 250V FX-BU(i&c) / Class5 Conductor

(TRIAD TYPE)

No. of Triads	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	±mm	kg/km
1T	0.75	1.3	0.6	1.1	9.2	0.9	120
2T	0.75	1.3	0.6	1.3	14.8	1.1	310
3T	0.75	1.3	0.6	1.3	15.8	1.1	370
4T	0.75	1.3	0.6	1.4	17.5	1.1	470
5T	0.75	1.3	0.6	1.4	19.3	1.2	560
6T	0.75	1.3	0.6	1.5	21.9	1.3	700
7T	0.75	1.3	0.6	1.5	21.9	1.3	740
8T	0.75	1.3	0.6	1.6	23.6	1.3	850
10T	0.75	1.3	0.6	1.7	26.8	1.3	1,080
12T	0.75	1.3	0.6	1.8	28.5	1.4	1,250
14T	0.75	1.3	0.6	1.8	29.7	1.4	1,390
16T	0.75	1.3	0.6	1.9	31.8	1.5	1,580
19T	0.75	1.3	0.6	2.0	34.4	1.5	1,870
24T	0.75	1.3	0.6	2.1	38.2	1.7	2,320
32T	0.75	1.3	0.6	2.4	44.3	1.8	3,140
1T	1.0	1.5	0.6	1.1	9.7	0.9	150
2T	1.0	1.5	0.6	1.3	15.6	1.1	350
3T	1.0	1.5	0.6	1.3	16.6	1.1	430
4T	1.0	1.5	0.6	1.4	18.4	1.2	530
5T	1.0	1.5	0.6	1.5	20.6	1.2	660
6T	1.0	1.5	0.6	1.6	23.4	1.3	830
7T	1.0	1.5	0.6	1.6	23.4	1.3	870
8T	1.0	1.5	0.6	1.7	25.2	1.4	1,010
10T	1.0	1.5	0.6	1.8	28.7	1.5	1,280
12T	1.0	1.5	0.6	1.8	30.3	1.5	1,450
14T	1.0	1.5	0.6	1.9	31.8	1.6	1,640
16T	1.0	1.5	0.6	2.0	33.9	1.6	1,870
19T	1.0	1.5	0.6	2.1	36.8	1.7	2,210
24T	1.0	1.5	0.6	2.2	40.8	1.8	2,740
32T	1.0	1.5	0.6	2.5	47.3	2.0	3,710
1T	1.5	1.8	0.7	1.1	10.7	1.0	180
2T	1.5	1.8	0.7	1.4	17.7	1.3	450
3T	1.5	1.8	0.7	1.4	18.8	1.4	550
4T	1.5	1.8	0.7	1.5	20.9	1.4	690
5T	1.5	1.8	0.7	1.6	23.3	1.5	850
6T	1.5	1.8	0.7	1.7	26.5	1.7	1,070
7T	1.5	1.8	0.7	1.7	26.5	1.7	1,130
8T	1.5	1.8	0.7	1.8	28.5	1.7	1,300
10T	1.5	1.8	0.7	1.9	32.5	1.8	1,650
12T	1.5	1.8	0.7	2.0	34.5	2.0	1,910
14T	1.5	1.8	0.7	2.1	36.1	2.1	2,160
16T	1.5	1.8	0.7	2.2	38.5	2.2	2,460
19T	1.5	1.8	0.7	2.3	41.9	2.3	2,910
24T	1.5	1.8	0.7	2.5	46.6	2.5	3,650
32T	1.5	1.8	0.7	2.7	53.8	2.7	4,880
1T	2.5	2.4	0.7	1.2	11.8	1.1	240
2T	2.5	2.4	0.7	1.4	19.2	1.2	560
3T	2.5	2.4	0.7	1.5	20.6	1.2	710
4T	2.5	2.4	0.7	1.6	22.9	1.3	900
5T	2.5	2.4	0.7	1.7	25.6	1.4	1,110
6T	2.5	2.4	0.7	1.8	29.1	1.5	1,380
7T	2.5	2.4	0.7	1.8	29.1	1.5	1,470
8T	2.5	2.4	0.7	1.9	31.3	1.5	1,690
10T	2.5	2.4	0.7	2.0	35.7	1.7	2,150
12T	2.5	2.4	0.7	2.1	37.9	1.7	2,500
14T	2.5	2.4	0.7	2.2	39.8	1.8	2,830
16T	2.5	2.4	0.7	2.3	42.5	1.9	3,240
19T	2.5	2.4	0.7	2.4	46.0	2.0	3,820
24T	2.5	2.4	0.7	2.6	51.3	2.1	4,810
32T	2.5	2.4	0.7	2.9	59.4	2.4	6,500

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

250V BU(i), 250V BU(i&c) (Fire resistant with water) / Class2 Conductor
250V FX-BU(i), 250V FX-BU(i&c) (Fire resistant with water) / Class2 Conductor

(PAIR TYPE)

No. of Pairs	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	±mm	kg/km
1P	0.75	1.3	0.6	1.0	8.6	0.9	110
2P	0.75	1.3	0.6	1.2	13.8	1.0	260
3P	0.75	1.3	0.6	1.3	14.8	1.1	320
4P	0.75	1.3	0.6	1.3	16.1	1.1	380
5P	0.75	1.3	0.6	1.4	18.1	1.2	480
6P	0.75	1.3	0.6	1.4	18.8	1.2	530
7P	0.75	1.3	0.6	1.4	18.8	1.2	560
8P	0.75	1.3	0.6	1.5	20.8	1.2	660
10P	0.75	1.3	0.6	1.6	23.7	1.3	840
12P	0.75	1.3	0.6	1.6	24.6	1.3	930
14P	0.75	1.3	0.6	1.7	26.1	1.4	1,060
16P	0.75	1.3	0.6	1.8	28.1	1.5	1,230
19P	0.75	1.3	0.6	1.8	28.7	1.5	1,340
24P	0.75	1.3	0.6	2.0	33.7	1.6	1,790
32P	0.75	1.3	0.6	2.1	36.6	1.7	2,210
1P	1.0	1.5	0.6	1.1	9.2	0.9	130
2P	1.0	1.5	0.6	1.3	14.7	1.1	300
3P	1.0	1.5	0.6	1.3	15.5	1.1	360
4P	1.0	1.5	0.6	1.4	17.2	1.1	450
5P	1.0	1.5	0.6	1.4	19.1	1.2	540
6P	1.0	1.5	0.6	1.5	20.0	1.2	620
7P	1.0	1.5	0.6	1.5	20.0	1.2	650
8P	1.0	1.5	0.6	1.5	21.9	1.3	760
10P	1.0	1.5	0.6	1.7	25.2	1.4	980
12P	1.0	1.5	0.6	1.7	26.2	1.4	1,090
14P	1.0	1.5	0.6	1.7	27.5	1.4	1,220
16P	1.0	1.5	0.6	1.8	29.7	1.5	1,420
19P	1.0	1.5	0.6	1.8	30.3	1.5	1,550
24P	1.0	1.5	0.6	2.0	35.6	1.7	2,060
32P	1.0	1.5	0.6	2.2	38.9	1.8	2,600
1P	1.5	1.8	0.7	1.1	10.1	1.0	160
2P	1.5	1.8	0.7	1.3	16.4	1.2	370
3P	1.5	1.8	0.7	1.4	17.5	1.2	460
4P	1.5	1.8	0.7	1.4	19.2	1.4	560
5P	1.5	1.8	0.7	1.5	21.6	1.4	690
6P	1.5	1.8	0.7	1.6	22.5	1.6	790
7P	1.5	1.8	0.7	1.6	22.5	1.6	830
8P	1.5	1.8	0.7	1.6	24.8	1.6	960
10P	1.5	1.8	0.7	1.8	28.6	1.7	1,250
12P	1.5	1.8	0.7	1.8	29.7	1.7	1,400
14P	1.5	1.8	0.7	1.9	31.3	1.8	1,590
16P	1.5	1.8	0.7	2.0	33.8	1.8	1,840
19P	1.5	1.8	0.7	2.0	34.5	1.9	2,020
24P	1.5	1.8	0.7	2.2	40.5	2.0	2,680
32P	1.5	1.8	0.7	2.4	44.2	2.3	3,380
1P	2.5	2.4	0.7	1.1	11.0	1.0	190
2P	2.5	2.4	0.7	1.4	18.0	1.1	470
3P	2.5	2.4	0.7	1.4	19.1	1.2	570
4P	2.5	2.4	0.7	1.5	21.1	1.2	720
5P	2.5	2.4	0.7	1.6	23.8	1.3	900
6P	2.5	2.4	0.7	1.6	24.7	1.4	1,000
7P	2.5	2.4	0.7	1.6	24.7	1.4	1,060
8P	2.5	2.4	0.7	1.7	27.3	1.4	1,260
10P	2.5	2.4	0.7	1.9	31.5	1.6	1,630
12P	2.5	2.4	0.7	1.9	32.7	1.6	1,830
14P	2.5	2.4	0.7	2.0	34.6	1.6	2,090
16P	2.5	2.4	0.7	2.1	37.3	1.7	2,420
19P	2.5	2.4	0.7	2.1	38.1	1.8	2,660
24P	2.5	2.4	0.7	2.4	44.9	2.0	3,570
32P	2.5	2.4	0.7	2.5	48.9	2.1	4,470

Instrumentation & Communication Cable

250V BU(i), 250V BU(i&c) (Fire resistant with water) / Class2 Conductor
250V FX-BU(i), 250V FX-BU(i&c) (Fire resistant with water) / Class2 Conductor

(TRIAD TYPE)

No. of Triads	Conductor		Thickness of Insulation	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.			Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	±mm	kg/km
1T	0.75	1.3	0.6	1.1	9.2	0.9	120
2T	0.75	1.3	0.6	1.3	14.8	1.1	310
3T	0.75	1.3	0.6	1.3	15.8	1.1	370
4T	0.75	1.3	0.6	1.4	17.5	1.1	470
5T	0.75	1.3	0.6	1.4	19.3	1.2	560
6T	0.75	1.3	0.6	1.5	21.9	1.3	700
7T	0.75	1.3	0.6	1.5	21.9	1.3	740
8T	0.75	1.3	0.6	1.6	23.6	1.3	850
10T	0.75	1.3	0.6	1.7	26.8	1.3	1,080
12T	0.75	1.3	0.6	1.8	28.5	1.4	1,250
14T	0.75	1.3	0.6	1.8	29.7	1.4	1,390
16T	0.75	1.3	0.6	1.9	31.8	1.5	1,580
19T	0.75	1.3	0.6	2.0	34.4	1.5	1,870
24T	0.75	1.3	0.6	2.1	38.2	1.7	2,320
32T	0.75	1.3	0.6	2.4	44.3	1.8	3,140
1T	1.0	1.5	0.6	1.1	9.7	0.9	150
2T	1.0	1.5	0.6	1.3	15.6	1.1	350
3T	1.0	1.5	0.6	1.3	16.6	1.1	430
4T	1.0	1.5	0.6	1.4	18.4	1.2	530
5T	1.0	1.5	0.6	1.5	20.6	1.2	660
6T	1.0	1.5	0.6	1.6	23.4	1.3	830
7T	1.0	1.5	0.6	1.6	23.4	1.3	870
8T	1.0	1.5	0.6	1.7	25.2	1.4	1,010
10T	1.0	1.5	0.6	1.8	28.7	1.5	1,280
12T	1.0	1.5	0.6	1.8	30.3	1.5	1,450
14T	1.0	1.5	0.6	1.9	31.8	1.6	1,640
16T	1.0	1.5	0.6	2.0	33.9	1.6	1,870
19T	1.0	1.5	0.6	2.1	36.8	1.7	2,210
24T	1.0	1.5	0.6	2.2	40.8	1.8	2,740
32T	1.0	1.5	0.6	2.5	47.3	2.0	3,710
1T	1.5	1.8	0.7	1.1	10.7	1.0	180
2T	1.5	1.8	0.7	1.4	17.7	1.3	450
3T	1.5	1.8	0.7	1.4	18.8	1.4	550
4T	1.5	1.8	0.7	1.5	20.9	1.4	690
5T	1.5	1.8	0.7	1.6	23.3	1.5	850
6T	1.5	1.8	0.7	1.7	26.5	1.7	1,070
7T	1.5	1.8	0.7	1.7	26.5	1.7	1,130
8T	1.5	1.8	0.7	1.8	28.5	1.7	1,300
10T	1.5	1.8	0.7	1.9	32.5	1.8	1,650
12T	1.5	1.8	0.7	2.0	34.5	2.0	1,910
14T	1.5	1.8	0.7	2.1	36.1	2.1	2,160
16T	1.5	1.8	0.7	2.2	38.5	2.2	2,460
19T	1.5	1.8	0.7	2.3	41.9	2.3	2,910
24T	1.5	1.8	0.7	2.5	46.6	2.5	3,650
32T	1.5	1.8	0.7	2.7	53.8	2.7	4,880
1T	2.5	2.4	0.7	1.2	11.8	1.1	240
2T	2.5	2.4	0.7	1.4	19.2	1.2	560
3T	2.5	2.4	0.7	1.5	20.6	1.2	710
4T	2.5	2.4	0.7	1.6	22.9	1.3	900
5T	2.5	2.4	0.7	1.7	25.6	1.4	1,110
6T	2.5	2.4	0.7	1.8	29.1	1.5	1,380
7T	2.5	2.4	0.7	1.8	29.1	1.5	1,470
8T	2.5	2.4	0.7	1.9	31.3	1.5	1,690
10T	2.5	2.4	0.7	2.0	35.7	1.7	2,150
12T	2.5	2.4	0.7	2.1	37.9	1.7	2,500
14T	2.5	2.4	0.7	2.2	39.8	1.8	2,830
16T	2.5	2.4	0.7	2.3	42.5	1.9	3,240
19T	2.5	2.4	0.7	2.4	46.0	2.0	3,820
24T	2.5	2.4	0.7	2.6	51.3	2.1	4,810
32T	2.5	2.4	0.7	2.9	59.4	2.4	6,500

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

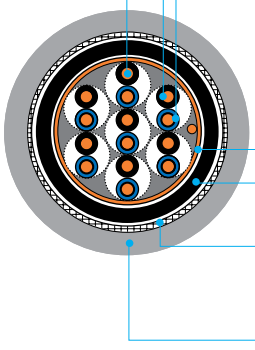
Cable Designation (S104)

250V BFOU(c)

Application Standard

- Design guide	: NEK-606 & IEC 60092-376
- Flame retardant	: IEC 60332-1 & IEC 60332-3 Category A
- Fire resistance	: IEC 60331-21(90min) & IEC 60331-1,-2(120min) Option : EN 50200(15min) / BS 8491(5min)
- Halogen content	: IEC 60754-1, 0.5% ↓
- Cold bend / impact	: CSA 22.2 No.03 (-40℃/-35℃)
- Mud / Oil resistant	: NEK-606 (Category a, b, c, d)
- Smoke light transmittance	: IEC 61034, 60% ↑
- Sunlight (UV) resistant	: UL 1581

Construction

Sectional view	Classification	Code	Construction detail
	Conductor	FX-	- Stranded tinned annealed copper wires as per IEC 60228, Class 2 - Option : Stranded tinned annealed copper wires as per IEC 60228, Class 5 (FX-added)
	Fire resisting layer	B	- Mica/glass tape
	Insulation		- EPR as per IEC 60092-360
	Twisting		- Two/Three Insulated cores shall be twisted together to form a pair/Triad
	Cabling		- Twisted pairs / triads shall be cabled - Flame retardant & non-hygroscopic fillers may be used - Suitable tape(s) may be applied on the cabled core - A Filler may be applied to obtain a circular Cable
	Collective screen	(c)	- CU/PS or AL/PS tape + Tinned copper drain wire
	Inner covering	F	- Flame retardant halogen free thermoset compound
	Armor	O (B,C)	- Braid of tinned copper wire (O) - Option : Bronze wire braid (B) /galvanized steel wire braid (C) - A suitable separator tape(s) may be applied under/over the armor
	Sheath	U	- SHF2 as per IEC 60092-360 - Option : NEK-606 (Category a, b, c, d) / Mud or oil resistant - Outer sheath color : Grey (Non-IS Type) or Blue (IS Type)
	Core identification		- Each Pair / Triad : Core color ① Pair : Black, Light blue ② Triad : Black, Light blue, Brown - Multi Pairs / Triads : Number printing on the insulation or numbered tape

Instrumentation & Communication Cable

250V BFOU(c), 250V BFBU(c), 250V BFCU(c) / Class2 Conductor
250V FX-BFOU(c), 250V FX-BFBU(c), 250V FX-BFCU(c) / Class5 Conductor (PAIR TYPE)

No. of Pairs	Conductor		Thickness of Insulation	Thickness of inner covering	Nomina dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
1P	0.75	1.3	0.6	1.0	8.1	0.3	1.2	12.0	0.8	240
2P	0.75	1.3	0.6	1.0	12.1	0.3	1.3	16.2	0.8	390
3P	0.75	1.3	0.6	1.0	12.9	0.3	1.4	17.2	0.8	440
4P	0.75	1.3	0.6	1.0	13.8	0.3	1.4	18.1	0.8	500
5P	0.75	1.3	0.6	1.0	15.5	0.3	1.5	20.0	0.9	590
6P	0.75	1.3	0.6	1.0	16.7	0.3	1.5	21.2	0.9	660
7P	0.75	1.3	0.6	1.0	16.7	0.3	1.5	21.2	0.9	670
8P	0.75	1.3	0.6	1.0	17.9	0.3	1.6	22.6	1.0	750
10P	0.75	1.3	0.6	1.0	20.2	0.3	1.7	25.1	1.1	910
12P	0.75	1.3	0.6	1.0	21.1	0.3	1.7	26.0	1.1	990
14P	0.75	1.3	0.6	1.0	21.9	0.3	1.7	26.8	1.1	1,060
16P	0.75	1.3	0.6	1.0	23.7	0.3	1.8	28.8	1.2	1,200
19P	0.75	1.3	0.6	1.0	24.8	0.3	1.8	29.9	1.2	1,320
24P	0.75	1.3	0.6	1.2	29.1	0.3	2.0	34.4	1.5	1,740
32P	0.75	1.3	0.6	1.2	33.2	0.4	2.2	39.3	1.7	2,290
1P	1.0	1.5	0.6	1.0	8.5	0.3	1.2	12.4	0.7	250
2P	1.0	1.5	0.6	1.0	12.7	0.3	1.4	17.0	0.8	430
3P	1.0	1.5	0.6	1.0	13.7	0.3	1.4	18.0	0.8	490
4P	1.0	1.5	0.6	1.0	14.6	0.3	1.4	18.9	0.9	550
5P	1.0	1.5	0.6	1.0	16.5	0.3	1.5	21.0	0.9	650
6P	1.0	1.5	0.6	1.0	17.7	0.3	1.6	22.4	1.0	740
7P	1.0	1.5	0.6	1.0	17.7	0.3	1.6	22.4	1.0	760
8P	1.0	1.5	0.6	1.0	18.9	0.3	1.6	23.6	1.0	840
10P	1.0	1.5	0.6	1.0	21.4	0.3	1.7	26.3	1.1	1,010
12P	1.0	1.5	0.6	1.0	22.4	0.3	1.7	27.3	1.1	1,110
14P	1.0	1.5	0.6	1.0	23.3	0.3	1.8	28.4	1.2	1,210
16P	1.0	1.5	0.6	1.0	25.1	0.3	1.9	30.4	1.2	1,370
19P	1.0	1.5	0.6	1.0	26.4	0.3	1.9	31.7	1.3	1,510
24P	1.0	1.5	0.6	1.2	30.9	0.4	2.1	36.8	1.6	2,070
32P	1.0	1.5	0.6	1.2	35.2	0.4	2.3	41.5	1.8	2,600
1P	1.5	1.8	0.7	1.0	9.5	0.3	1.2	13.3	0.8	290
2P	1.5	1.8	0.7	1.0	14.4	0.3	1.4	18.7	0.9	510
3P	1.5	1.8	0.7	1.0	15.5	0.3	1.5	19.9	1.0	590
4P	1.5	1.8	0.7	1.0	16.6	0.3	1.5	21.0	1.0	670
5P	1.5	1.8	0.7	1.0	18.8	0.3	1.6	23.4	1.2	810
6P	1.5	1.8	0.7	1.0	20.2	0.3	1.7	25.0	1.2	920
7P	1.5	1.8	0.7	1.0	20.2	0.3	1.7	25.0	1.2	950
8P	1.5	1.8	0.7	1.0	21.6	0.3	1.7	26.4	1.2	1,050
10P	1.5	1.8	0.7	1.0	24.5	0.3	1.8	29.5	1.4	1,270
12P	1.5	1.8	0.7	1.0	25.6	0.3	1.9	30.8	1.4	1,410
14P	1.5	1.8	0.7	1.0	26.7	0.3	1.9	31.8	1.5	1,530
16P	1.5	1.8	0.7	1.2	29.6	0.3	2.0	34.8	1.8	1,840
19P	1.5	1.8	0.7	1.2	31.1	0.4	2.1	36.8	1.8	2,140
24P	1.5	1.8	0.7	1.2	35.4	0.4	2.3	41.5	2.0	2,650
32P	1.5	1.8	0.7	1.4	40.8	0.4	2.5	47.3	2.2	3,420
1P	2.5	2.4	0.7	1.0	10.3	0.3	1.3	14.4	0.7	350
2P	2.5	2.4	0.7	1.0	15.8	0.3	1.5	20.3	0.9	610
3P	2.5	2.4	0.7	1.0	17.0	0.3	1.5	21.5	0.9	710
4P	2.5	2.4	0.7	1.0	18.2	0.3	1.6	22.9	1.0	820
5P	2.5	2.4	0.7	1.0	20.6	0.3	1.7	25.5	1.1	990
6P	2.5	2.4	0.7	1.0	22.2	0.3	1.7	27.1	1.1	1,120
7P	2.5	2.4	0.7	1.0	22.2	0.3	1.7	27.1	1.1	1,170
8P	2.5	2.4	0.7	1.0	23.8	0.3	1.8	28.9	1.2	1,310
10P	2.5	2.4	0.7	1.0	27.0	0.3	1.9	32.3	1.3	1,600
12P	2.5	2.4	0.7	1.2	29.0	0.3	2.0	34.3	1.5	1,880
14P	2.5	2.4	0.7	1.2	30.2	0.4	2.1	35.8	1.9	2,160
16P	2.5	2.4	0.7	1.2	32.6	0.4	2.2	38.7	1.9	2,440
19P	2.5	2.4	0.7	1.2	34.2	0.4	2.2	40.3	1.9	2,710
24P	2.5	2.4	0.7	1.4	39.4	0.4	2.4	45.9	1.9	3,440
32P	2.5	2.4	0.7	1.4	45.0	0.4	2.7	52.1	2.1	4,400

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

250V BFOU(c), 250V BFBU(c), 250V BFCU(c) / Class2 Conductor
250V FX-BFOU(c), 250V FX-BFBU(c), 250V FX-BFCU(c) / Class5 Conductor

(TRIAD TYPE)

No. of Triads	Conductor		Thickness of Insulation	Thickness of inner covering	Nomina dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
1T	0.75	1.3	0.6	1.0	8.5	0.3	1.2	12.4	0.8	260
2T	0.75	1.3	0.6	1.0	13.1	0.3	1.4	17.4	0.8	450
3T	0.75	1.3	0.6	1.0	14.0	0.3	1.4	18.3	0.8	510
4T	0.75	1.3	0.6	1.0	15.4	0.3	1.5	19.9	0.9	610
5T	0.75	1.3	0.6	1.0	17.2	0.3	1.5	21.7	1.0	710
6T	0.75	1.3	0.6	1.0	19.5	0.3	1.6	24.2	1.0	850
7T	0.75	1.3	0.6	1.0	19.5	0.3	1.6	24.2	1.0	880
8T	0.75	1.3	0.6	1.0	20.9	0.3	1.7	25.8	1.1	980
10T	0.75	1.3	0.6	1.0	23.8	0.3	1.8	28.9	1.2	1,200
12T	0.75	1.3	0.6	1.0	25.2	0.3	1.9	30.5	1.2	1,340
14T	0.75	1.3	0.6	1.0	26.4	0.3	1.9	31.7	1.3	1,470
16T	0.75	1.3	0.6	1.2	28.9	0.3	2.0	34.2	1.5	1,740
19T	0.75	1.3	0.6	1.2	31.2	0.4	2.1	37.1	1.6	2,080
24T	0.75	1.3	0.6	1.2	34.6	0.4	2.3	40.8	1.8	2,500
32T	0.75	1.3	0.6	1.4	40.2	0.4	2.5	46.9	1.9	3,260
1T	1.0	1.5	0.6	1.0	8.6	0.3	1.2	12.7	0.9	270
2T	1.0	1.5	0.6	1.0	13.3	0.3	1.4	18.0	1.2	490
3T	1.0	1.5	0.6	1.0	14.2	0.3	1.4	18.9	1.3	560
4T	1.0	1.5	0.6	1.0	15.6	0.3	1.5	20.6	1.4	670
5T	1.0	1.5	0.6	1.0	17.4	0.3	1.5	22.5	1.6	780
6T	1.0	1.5	0.6	1.0	19.7	0.3	1.6	25.1	1.8	930
7T	1.0	1.5	0.6	1.0	19.7	0.3	1.6	25.1	1.9	970
8T	1.0	1.5	0.6	1.0	21.2	0.3	1.7	26.7	1.9	1,100
10T	1.0	1.5	0.6	1.0	24.1	0.3	1.8	30.0	2.0	1,340
12T	1.0	1.5	0.6	1.0	25.6	0.3	1.9	32.0	2.4	1,520
14T	1.0	1.5	0.6	1.0	26.8	0.3	1.9	33.2	2.4	1,660
16T	1.0	1.5	0.6	1.2	29.3	0.3	2.0	35.8	2.4	1,970
19T	1.0	1.5	0.6	1.2	31.7	0.4	2.1	38.6	2.4	2,350
24T	1.0	1.5	0.6	1.2	35.2	0.4	2.3	42.5	2.4	2,850
32T	1.0	1.5	0.6	1.4	40.8	0.4	2.5	48.8	2.8	3,710
1T	1.5	1.8	0.7	1.0	10.1	0.3	1.3	14.0	0.9	330
2T	1.5	1.8	0.7	1.0	16.0	0.3	1.5	20.4	1.0	610
3T	1.5	1.8	0.7	1.0	17.0	0.3	1.5	21.4	1.0	700
4T	1.5	1.8	0.7	1.0	18.8	0.3	1.6	23.4	1.1	840
5T	1.5	1.8	0.7	1.0	21.0	0.3	1.7	25.8	1.2	1,000
6T	1.5	1.8	0.7	1.0	23.9	0.3	1.8	28.9	1.4	1,210
7T	1.5	1.8	0.7	1.0	23.9	0.3	1.8	28.9	1.4	1,260
8T	1.5	1.8	0.7	1.0	25.7	0.3	1.9	30.9	1.4	1,420
10T	1.5	1.8	0.7	1.2	30.1	0.4	2.1	35.6	2.0	1,950
12T	1.5	1.8	0.7	1.2	32.0	0.4	2.1	37.7	2.0	2,170
14T	1.5	1.8	0.7	1.2	33.4	0.4	2.2	39.3	2.0	2,390
16T	1.5	1.8	0.7	1.2	35.6	0.4	2.3	41.7	2.0	2,670
19T	1.5	1.8	0.7	1.4	38.9	0.4	2.4	45.2	2.1	3,130
24T	1.5	1.8	0.7	1.4	43.2	0.4	2.6	49.9	2.3	3,790
32T	1.5	1.8	0.7	1.6	50.3	0.4	2.9	57.3	2.7	5,040
1T	2.5	2.4	0.7	1.0	10.9	0.3	1.3	15.0	0.9	390
2T	2.5	2.4	0.7	1.0	17.4	0.3	1.5	21.9	1.0	730
3T	2.5	2.4	0.7	1.0	18.6	0.3	1.6	23.3	1.0	870
4T	2.5	2.4	0.7	1.0	20.6	0.3	1.7	25.5	1.1	1,040
5T	2.5	2.4	0.7	1.0	23.0	0.3	1.8	28.1	1.1	1,250
6T	2.5	2.4	0.7	1.0	26.1	0.3	1.9	31.4	1.2	1,500
7T	2.5	2.4	0.7	1.0	26.1	0.3	1.9	31.4	1.2	1,580
8T	2.5	2.4	0.7	1.2	28.9	0.3	2.0	34.2	1.5	1,880
10T	2.5	2.4	0.7	1.2	32.9	0.4	2.2	39.0	1.7	2,430
12T	2.5	2.4	0.7	1.2	34.9	0.4	2.3	41.1	1.8	2,740
14T	2.5	2.4	0.7	1.2	36.5	0.4	2.3	42.8	1.8	3,010
16T	2.5	2.4	0.7	1.4	39.3	0.4	2.4	45.8	1.9	3,450
19T	2.5	2.4	0.7	1.4	42.5	0.4	2.6	49.4	2.0	3,990
24T	2.5	2.4	0.7	1.4	47.3	0.4	2.8	54.5	2.2	4,860
32T	2.5	2.4	0.7	1.6	55.1	0.4	3.1	62.8	2.6	6,460

Instrumentation & Communication Cable

250V BFOU(c), 250V BFBU(c), 250V BFCU(c) (Fire resistant with water) / Class2 Conductor
250V FX-BFOU(c), 250V FX-BFBU(c), 250V FX-BFCU(c) (Fire resistant with water) / Class5 Conductor (PAIR TYPE)

No. of Pairs	Conductor		Thickness of Insulation	Thickness of inner covering	Nomina dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
1P	0.75	1.3	0.6	1.0	8.1	0.3	1.2	12.0	0.8	240
2P	0.75	1.3	0.6	1.0	12.1	0.3	1.3	16.2	0.8	390
3P	0.75	1.3	0.6	1.0	12.9	0.3	1.4	17.2	0.8	440
4P	0.75	1.3	0.6	1.0	13.8	0.3	1.4	18.1	0.8	500
5P	0.75	1.3	0.6	1.0	15.5	0.3	1.5	20.0	0.9	590
6P	0.75	1.3	0.6	1.0	16.7	0.3	1.5	21.2	0.9	660
7P	0.75	1.3	0.6	1.0	16.7	0.3	1.5	21.2	0.9	670
8P	0.75	1.3	0.6	1.0	17.9	0.3	1.6	22.6	1.0	750
10P	0.75	1.3	0.6	1.0	20.2	0.3	1.7	25.1	1.1	910
12P	0.75	1.3	0.6	1.0	21.1	0.3	1.7	26.0	1.1	990
14P	0.75	1.3	0.6	1.0	21.9	0.3	1.7	26.8	1.1	1,060
16P	0.75	1.3	0.6	1.0	23.7	0.3	1.8	28.8	1.2	1,200
19P	0.75	1.3	0.6	1.0	24.8	0.3	1.8	29.9	1.2	1,320
24P	0.75	1.3	0.6	1.2	29.1	0.3	2.0	34.4	1.5	1,740
32P	0.75	1.3	0.6	1.2	33.2	0.4	2.2	39.3	1.7	2,290
1P	1.0	1.5	0.6	1.0	8.5	0.3	1.2	12.4	0.7	250
2P	1.0	1.5	0.6	1.0	12.7	0.3	1.4	17.0	0.8	430
3P	1.0	1.5	0.6	1.0	13.7	0.3	1.4	18.0	0.8	490
4P	1.0	1.5	0.6	1.0	14.6	0.3	1.4	18.9	0.9	550
5P	1.0	1.5	0.6	1.0	16.5	0.3	1.5	21.0	0.9	650
6P	1.0	1.5	0.6	1.0	17.7	0.3	1.6	22.4	1.0	740
7P	1.0	1.5	0.6	1.0	17.7	0.3	1.6	22.4	1.0	760
8P	1.0	1.5	0.6	1.0	18.9	0.3	1.6	23.6	1.0	840
10P	1.0	1.5	0.6	1.0	21.4	0.3	1.7	26.3	1.1	1,010
12P	1.0	1.5	0.6	1.0	22.4	0.3	1.7	27.3	1.1	1,110
14P	1.0	1.5	0.6	1.0	23.3	0.3	1.8	28.4	1.2	1,210
16P	1.0	1.5	0.6	1.0	25.1	0.3	1.9	30.4	1.2	1,370
19P	1.0	1.5	0.6	1.0	26.4	0.3	1.9	31.7	1.3	1,510
24P	1.0	1.5	0.6	1.2	30.9	0.4	2.1	36.8	1.6	2,070
32P	1.0	1.5	0.6	1.2	35.2	0.4	2.3	41.5	1.8	2,600
1P	1.5	1.8	0.7	1.0	9.5	0.3	1.2	13.3	0.8	290
2P	1.5	1.8	0.7	1.0	14.4	0.3	1.4	18.7	0.9	510
3P	1.5	1.8	0.7	1.0	15.5	0.3	1.5	19.9	1.0	590
4P	1.5	1.8	0.7	1.0	16.6	0.3	1.5	21.0	1.0	670
5P	1.5	1.8	0.7	1.0	18.8	0.3	1.6	23.4	1.2	810
6P	1.5	1.8	0.7	1.0	20.2	0.3	1.7	25.0	1.2	920
7P	1.5	1.8	0.7	1.0	20.2	0.3	1.7	25.0	1.2	950
8P	1.5	1.8	0.7	1.0	21.6	0.3	1.7	26.4	1.2	1,050
10P	1.5	1.8	0.7	1.0	24.5	0.3	1.8	29.5	1.4	1,270
12P	1.5	1.8	0.7	1.0	25.6	0.3	1.9	30.8	1.4	1,410
14P	1.5	1.8	0.7	1.0	26.7	0.3	1.9	31.8	1.5	1,530
16P	1.5	1.8	0.7	1.2	29.6	0.3	2.0	34.8	1.8	1,840
19P	1.5	1.8	0.7	1.2	31.1	0.4	2.1	36.8	1.8	2,140
24P	1.5	1.8	0.7	1.2	35.4	0.4	2.3	41.5	2.0	2,650
32P	1.5	1.8	0.7	1.4	40.8	0.4	2.5	47.3	2.2	3,420
1P	2.5	2.4	0.7	1.0	10.3	0.3	1.3	14.4	0.7	350
2P	2.5	2.4	0.7	1.0	15.8	0.3	1.5	20.3	0.9	610
3P	2.5	2.4	0.7	1.0	17.0	0.3	1.5	21.5	0.9	710
4P	2.5	2.4	0.7	1.0	18.2	0.3	1.6	22.9	1.0	820
5P	2.5	2.4	0.7	1.0	20.6	0.3	1.7	25.5	1.1	990
6P	2.5	2.4	0.7	1.0	22.2	0.3	1.7	27.1	1.1	1,120
7P	2.5	2.4	0.7	1.0	22.2	0.3	1.7	27.1	1.1	1,170
8P	2.5	2.4	0.7	1.0	23.8	0.3	1.8	28.9	1.2	1,310
10P	2.5	2.4	0.7	1.0	27.0	0.3	1.9	32.3	1.3	1,600
12P	2.5	2.4	0.7	1.2	29.0	0.3	2.0	34.3	1.5	1,880
14P	2.5	2.4	0.7	1.2	30.2	0.4	2.1	35.8	1.9	2,160
16P	2.5	2.4	0.7	1.2	32.6	0.4	2.2	38.7	1.9	2,440
19P	2.5	2.4	0.7	1.2	34.2	0.4	2.2	40.3	1.9	2,710
24P	2.5	2.4	0.7	1.4	39.4	0.4	2.4	45.9	1.9	3,440
32P	2.5	2.4	0.7	1.4	45.0	0.4	2.7	52.1	2.1	4,400

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

250V BFOU(c), 250V BFBU(c), 250V BFCU(c) (Fire resistant with water) / Class2 Conductor
250V FX-BFOU(c), 250V FX-BFBU(c), 250V FX-BFCU(c) (Fire resistant with water) / Class5 Conductor (TRIAD TYPE)

No. of Triads	Conductor		Thickness of Insulation	Thickness of inner covering	Nomina dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
1T	0.75	1.3	0.6	1.0	8.5	0.3	1.2	12.4	0.8	260
2T	0.75	1.3	0.6	1.0	13.1	0.3	1.4	17.4	0.8	450
3T	0.75	1.3	0.6	1.0	14.0	0.3	1.4	18.3	0.8	510
4T	0.75	1.3	0.6	1.0	15.4	0.3	1.5	19.9	0.9	610
5T	0.75	1.3	0.6	1.0	17.2	0.3	1.5	21.7	1.0	710
6T	0.75	1.3	0.6	1.0	19.5	0.3	1.6	24.2	1.0	850
7T	0.75	1.3	0.6	1.0	19.5	0.3	1.6	24.2	1.0	880
8T	0.75	1.3	0.6	1.0	20.9	0.3	1.7	25.8	1.1	980
10T	0.75	1.3	0.6	1.0	23.8	0.3	1.8	28.9	1.2	1,200
12T	0.75	1.3	0.6	1.0	25.2	0.3	1.9	30.5	1.2	1,340
14T	0.75	1.3	0.6	1.0	26.4	0.3	1.9	31.7	1.3	1,470
16T	0.75	1.3	0.6	1.2	28.9	0.3	2.0	34.2	1.5	1,740
19T	0.75	1.3	0.6	1.2	31.2	0.4	2.1	37.1	1.6	2,080
24T	0.75	1.3	0.6	1.2	34.6	0.4	2.3	40.8	1.8	2,500
32T	0.75	1.3	0.6	1.4	40.2	0.4	2.5	46.9	1.9	3,260
1T	1.0	1.5	0.6	1.0	8.6	0.3	1.2	12.7	0.9	270
2T	1.0	1.5	0.6	1.0	13.3	0.3	1.4	18.0	1.2	490
3T	1.0	1.5	0.6	1.0	14.2	0.3	1.4	18.9	1.3	560
4T	1.0	1.5	0.6	1.0	15.6	0.3	1.5	20.6	1.4	670
5T	1.0	1.5	0.6	1.0	17.4	0.3	1.5	22.5	1.6	780
6T	1.0	1.5	0.6	1.0	19.7	0.3	1.6	25.1	1.8	930
7T	1.0	1.5	0.6	1.0	19.7	0.3	1.6	25.1	1.9	970
8T	1.0	1.5	0.6	1.0	21.2	0.3	1.7	26.7	1.9	1,100
10T	1.0	1.5	0.6	1.0	24.1	0.3	1.8	30.0	2.0	1,340
12T	1.0	1.5	0.6	1.0	25.6	0.3	1.9	32.0	2.4	1,520
14T	1.0	1.5	0.6	1.0	26.8	0.3	1.9	33.2	2.4	1,660
16T	1.0	1.5	0.6	1.2	29.3	0.3	2.0	35.8	2.4	1,970
19T	1.0	1.5	0.6	1.2	31.7	0.4	2.1	38.6	2.4	2,350
24T	1.0	1.5	0.6	1.2	35.2	0.4	2.3	42.5	2.4	2,850
32T	1.0	1.5	0.6	1.4	40.8	0.4	2.5	48.8	2.8	3,710
1T	1.5	1.8	0.7	1.0	10.1	0.3	1.3	14.0	0.9	330
2T	1.5	1.8	0.7	1.0	16.0	0.3	1.5	20.4	1.0	610
3T	1.5	1.8	0.7	1.0	17.0	0.3	1.5	21.4	1.0	700
4T	1.5	1.8	0.7	1.0	18.8	0.3	1.6	23.4	1.1	840
5T	1.5	1.8	0.7	1.0	21.0	0.3	1.7	25.8	1.2	1,000
6T	1.5	1.8	0.7	1.0	23.9	0.3	1.8	28.9	1.4	1,210
7T	1.5	1.8	0.7	1.0	23.9	0.3	1.8	28.9	1.4	1,260
8T	1.5	1.8	0.7	1.0	25.7	0.3	1.9	30.9	1.4	1,420
10T	1.5	1.8	0.7	1.2	30.1	0.4	2.1	35.6	2.0	1,950
12T	1.5	1.8	0.7	1.2	32.0	0.4	2.1	37.7	2.0	2,170
14T	1.5	1.8	0.7	1.2	33.4	0.4	2.2	39.3	2.0	2,390
16T	1.5	1.8	0.7	1.2	35.6	0.4	2.3	41.7	2.0	2,670
19T	1.5	1.8	0.7	1.4	38.9	0.4	2.4	45.2	2.1	3,130
24T	1.5	1.8	0.7	1.4	43.2	0.4	2.6	49.9	2.3	3,790
32T	1.5	1.8	0.7	1.6	50.3	0.4	2.9	57.3	2.7	5,040
1T	2.5	2.4	0.7	1.0	10.9	0.3	1.3	15.0	0.9	390
2T	2.5	2.4	0.7	1.0	17.4	0.3	1.5	21.9	1.0	730
3T	2.5	2.4	0.7	1.0	18.6	0.3	1.6	23.3	1.0	870
4T	2.5	2.4	0.7	1.0	20.6	0.3	1.7	25.5	1.1	1,040
5T	2.5	2.4	0.7	1.0	23.0	0.3	1.8	28.1	1.1	1,250
6T	2.5	2.4	0.7	1.0	26.1	0.3	1.9	31.4	1.2	1,500
7T	2.5	2.4	0.7	1.0	26.1	0.3	1.9	31.4	1.2	1,580
8T	2.5	2.4	0.7	1.2	28.9	0.3	2.0	34.2	1.5	1,880
10T	2.5	2.4	0.7	1.2	32.9	0.4	2.2	39.0	1.7	2,430
12T	2.5	2.4	0.7	1.2	34.9	0.4	2.3	41.1	1.8	2,740
14T	2.5	2.4	0.7	1.2	36.5	0.4	2.3	42.8	1.8	3,010
16T	2.5	2.4	0.7	1.4	39.3	0.4	2.4	45.8	1.9	3,450
19T	2.5	2.4	0.7	1.4	42.5	0.4	2.6	49.4	2.0	3,990
24T	2.5	2.4	0.7	1.4	47.3	0.4	2.8	54.5	2.2	4,860
32T	2.5	2.4	0.7	1.6	55.1	0.4	3.1	62.8	2.6	6,460

Instrumentation & Communication Cable

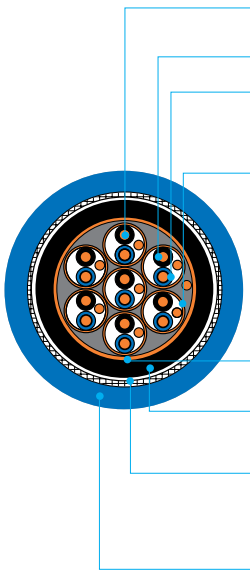
Cable Designation (S103)

250V BFOU(i), 250V BFOU(i&c)

Application Standard

- Design guide	: NEK-606 & IEC 60092-376
- Flame retardant	: IEC 60332-1 & IEC 60332-3 Category A
- Fire resistance	: IEC 60331-21(90min) & IEC 60331-1,-2(120min) Option : EN 50200(15min) / BS 8491(5min)
- Halogen content	: IEC 60754-1, 0.5% ↓
- Cold bend / impact	: CSA 22.2 No.03 (-40℃/-35℃)
- Mud / Oil resistant	: NEK-606 (Category a, b, c, d)
- Smoke light transmittance	: IEC 61034, 60% ↑
- Sunlight (UV) resistant	: UL 1581

Construction

Sectional view	Classification	Code	Construction detail
	Conductor	FX-	- Stranded tinned annealed copper wires as per IEC 60228, Class 2 - Option : Stranded tinned annealed copper wires as per IEC 60228, Class 5 (FX-added)
	Fire resisting layer	B	- Mica/glass tape
	Insulation		- EPR as per IEC 60092-360
	Twisting		- Two/Three Insulated cores shall be twisted together to form a pair/Triad
	Individual screen	(i)	- CU/PS or AL/PS tape + Tinned copper drain wire - In case of 1P, 1T for 250V BFOU(i&c), individual screen is omitted
	Cabling		- Twisted pairs / triads shall be cabled - Flame retardant & non-hygroscopic fillers may be used - Suitable tape(s) may be applied on the cabled core - A Filler may be applied to obtain a circular Cable
	Collective screen	(c)	- CU/PS or AL/PS tape + Tinned copper drain wire - In case of 250V BFOU(i), collective screen is omitted
	Inner covering	F	- Flame retardant halogen free thermoset compound
	Armor	O (B,C)	- Braid of tinned copper wire (O) - Option : Bronze wire braid (B) /galvanized steel wire braid (C) - A suitable separator tape(s) may be applied under / over the armor
	Sheath	U	- SHF2 as per IEC 60092-360 - Option : NEK-606 (Category a, b, c, d) / Mud or oil resistant - Outer sheath color : Grey (Non-IS Type) or Blue (IS Type)
	Core identification		- Each Pair / Triad : Core color ① Pair : Black, Light blue ② Triad : Black, Light blue, Brown - Multi Pairs / Triads : Number printing on the insulation or numbered tape

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

250V BFOU(i), 250V BFOU(i&c), 250V BFBU(i), 250V BFBU(i&c), 250V BFCU(i), 250V BFCU(i&c) / Class2 Conductor
250V FX-BFOU(i), 250V FX-BFOU(i&c), 250V FX-BFBU(i), 250V FX-BFBU(i&c), 250V FX-BFCU(i), 250V FX-BFCU(i&c) / Class5 Conductor (PAIR TYPE)

No. of Pairs	Conductor		Thickness of Insulation	Thickness of inner covering	Nomina dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
1P	0.75	1.3	0.6	1.0	8.1	0.3	1.2	12.0	0.8	240
2P	0.75	1.3	0.6	1.0	12.9	0.3	1.4	17.2	0.8	440
3P	0.75	1.3	0.6	1.0	13.7	0.3	1.4	18.0	0.8	500
4P	0.75	1.3	0.6	1.0	15.0	0.3	1.5	19.5	0.9	590
5P	0.75	1.3	0.6	1.0	16.8	0.3	1.5	21.3	0.9	690
6P	0.75	1.3	0.6	1.0	17.5	0.3	1.6	22.2	1.0	760
7P	0.75	1.3	0.6	1.0	17.5	0.3	1.6	22.2	1.0	780
8P	0.75	1.3	0.6	1.0	19.3	0.3	1.6	24.0	1.0	890
10P	0.75	1.3	0.6	1.0	22.0	0.3	1.7	26.9	1.1	1,090
12P	0.75	1.3	0.6	1.0	22.9	0.3	1.8	28.0	1.1	1,200
14P	0.75	1.3	0.6	1.0	24.2	0.3	1.8	29.3	1.2	1,320
16P	0.75	1.3	0.6	1.0	26.0	0.3	1.9	31.3	1.2	1,490
19P	0.75	1.3	0.6	1.0	26.6	0.3	1.9	31.9	1.3	1,610
24P	0.75	1.3	0.6	1.2	32.0	0.4	2.1	37.9	1.6	2,260
32P	0.75	1.3	0.6	1.2	34.7	0.4	2.3	40.9	1.8	2,720
1P	1.0	1.5	0.6	1.0	8.5	0.3	1.2	12.4	0.8	250
2P	1.0	1.5	0.6	1.0	13.6	0.3	1.4	17.9	0.8	480
3P	1.0	1.5	0.6	1.0	14.4	0.3	1.4	18.7	0.9	550
4P	1.0	1.5	0.6	1.0	15.9	0.3	1.5	20.4	0.9	650
5P	1.0	1.5	0.6	1.0	17.8	0.3	1.6	22.5	1.0	780
6P	1.0	1.5	0.6	1.0	18.5	0.3	1.6	23.2	1.0	840
7P	1.0	1.5	0.6	1.0	18.5	0.3	1.6	23.2	1.0	880
8P	1.0	1.5	0.6	1.0	20.4	0.3	1.7	25.3	1.1	1,010
10P	1.0	1.5	0.6	1.0	23.3	0.3	1.8	28.4	1.2	1,230
12P	1.0	1.5	0.6	1.0	24.3	0.3	1.8	29.4	1.2	1,350
14P	1.0	1.5	0.6	1.0	25.6	0.3	1.9	30.9	1.2	1,510
16P	1.0	1.5	0.6	1.2	28.4	0.3	2.0	33.7	1.5	1,810
19P	1.0	1.5	0.6	1.2	29.0	0.3	2.0	34.3	1.5	1,950
24P	1.0	1.5	0.6	1.2	33.9	0.4	2.2	40.0	1.7	2,580
32P	1.0	1.5	0.6	1.2	36.8	0.4	2.3	43.1	1.8	3,090
1P	1.5	1.8	0.7	1.0	9.5	0.3	1.2	13.3	0.8	290
2P	1.5	1.8	0.7	1.0	15.3	0.3	1.5	19.8	0.9	580
3P	1.5	1.8	0.7	1.0	16.3	0.3	1.5	20.7	1.0	660
4P	1.5	1.8	0.7	1.0	18.0	0.3	1.6	22.6	1.2	790
5P	1.5	1.8	0.7	1.0	20.2	0.3	1.7	25.0	1.2	950
6P	1.5	1.8	0.7	1.0	21.0	0.3	1.7	25.8	1.3	1,030
7P	1.5	1.8	0.7	1.0	21.0	0.3	1.7	25.8	1.3	1,070
8P	1.5	1.8	0.7	1.0	23.2	0.3	1.8	28.2	1.3	1,240
10P	1.5	1.8	0.7	1.0	26.6	0.3	1.9	31.8	1.5	1,520
12P	1.5	1.8	0.7	1.2	28.5	0.3	2.0	33.7	1.7	1,790
14P	1.5	1.8	0.7	1.2	30.0	0.3	2.1	35.2	1.9	1,990
16P	1.5	1.8	0.7	1.2	32.3	0.4	2.2	38.1	2.0	2,340
19P	1.5	1.8	0.7	1.2	33.0	0.4	2.2	38.9	2.0	2,520
24P	1.5	1.8	0.7	1.4	39.0	0.4	2.4	45.3	2.1	3,290
32P	1.5	1.8	0.7	1.4	42.4	0.4	2.6	49.0	2.4	3,980
1P	2.5	2.4	0.7	1.0	10.3	0.3	1.3	14.4	0.8	350
2P	2.5	2.4	0.7	1.0	16.7	0.3	1.5	21.2	0.9	680
3P	2.5	2.4	0.7	1.0	17.8	0.3	1.6	22.5	1.0	800
4P	2.5	2.4	0.7	1.0	19.6	0.3	1.6	24.3	1.0	950
5P	2.5	2.4	0.7	1.0	22.1	0.3	1.7	27.0	1.1	1,150
6P	2.5	2.4	0.7	1.0	23.0	0.3	1.8	28.1	1.1	1,270
7P	2.5	2.4	0.7	1.0	23.0	0.3	1.8	28.1	1.1	1,340
8P	2.5	2.4	0.7	1.0	25.4	0.3	1.9	30.7	1.2	1,540
10P	2.5	2.4	0.7	1.2	30.0	0.3	2.1	35.4	1.7	2,030
12P	2.5	2.4	0.7	1.2	31.2	0.4	2.1	37.1	1.7	2,330
14P	2.5	2.4	0.7	1.2	32.9	0.4	2.2	39.0	1.7	2,600
16P	2.5	2.4	0.7	1.2	35.4	0.4	2.3	41.7	1.8	2,930
19P	2.5	2.4	0.7	1.2	36.2	0.4	2.3	42.5	1.8	3,190
24P	2.5	2.4	0.7	1.4	42.8	0.4	2.6	49.7	2.0	4,180
32P	2.5	2.4	0.7	1.4	46.6	0.4	2.7	53.7	2.1	5,080

Instrumentation & Communication Cable

250V BFOU(i), 250V BFOU(i&c), 250V BFBU(i), 250V BFBU(i&c), 250V BFCU(i), 250V BFCU(i&c) / Class2 Conductor
250V FX-BFOU(i), 250V FX-BFOU(i&c), 250V FX-BFBU(i), 250V FX-BFBU(i&c), 250V FX-BFCU(i), 250V FX-BFCU(i&c) / Class5 Conductor (TRIAD TYPE)

No. of Triads	Conductor		Thickness of Insulation	Thickness of inner covering	Nomina dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
1T	0.75	1.3	0.6	1.0	8.5	0.3	1.2	12.4	0.8	260
2T	0.75	1.3	0.6	1.0	13.7	0.3	1.4	18.0	0.8	490
3T	0.75	1.3	0.6	1.0	14.6	0.3	1.4	19.0	0.8	560
4T	0.75	1.3	0.6	1.0	16.1	0.3	1.5	20.7	0.9	670
5T	0.75	1.3	0.6	1.0	17.9	0.3	1.6	22.7	1.0	800
6T	0.75	1.3	0.6	1.0	20.3	0.3	1.7	25.3	1.1	950
7T	0.75	1.3	0.6	1.0	20.3	0.3	1.7	25.3	1.1	990
8T	0.75	1.3	0.6	1.0	21.8	0.3	1.7	26.8	1.1	1,100
10T	0.75	1.3	0.6	1.0	24.8	0.3	1.8	30.1	1.1	1,340
12T	0.75	1.3	0.6	1.0	26.3	0.3	1.9	31.7	1.2	1,520
14T	0.75	1.3	0.6	1.2	28.3	0.3	2.0	33.7	1.4	1,780
16T	0.75	1.3	0.6	1.2	30.1	0.4	2.1	36.0	1.7	2,070
19T	0.75	1.3	0.6	1.2	32.6	0.4	2.2	38.8	1.7	2,370
24T	0.75	1.3	0.6	1.2	36.2	0.4	2.3	42.6	1.7	2,850
32T	0.75	1.3	0.6	1.4	42.0	0.4	2.5	48.9	1.9	3,720
1T	1.0	1.5	0.6	1.0	8.6	0.3	1.2	12.7	0.9	270
2T	1.0	1.5	0.6	1.0	13.8	0.3	1.4	18.5	1.3	520
3T	1.0	1.5	0.6	1.0	14.8	0.3	1.4	19.6	1.4	610
4T	1.0	1.5	0.6	1.0	16.3	0.3	1.5	21.2	1.4	720
5T	1.0	1.5	0.6	1.0	18.1	0.3	1.6	23.3	1.5	860
6T	1.0	1.5	0.6	1.0	20.6	0.3	1.7	26.1	1.7	1,030
7T	1.0	1.5	0.6	1.0	20.6	0.3	1.7	26.1	1.7	1,080
8T	1.0	1.5	0.6	1.0	22.1	0.3	1.7	27.7	1.9	1,200
10T	1.0	1.5	0.6	1.0	25.2	0.3	1.9	31.2	2.0	1,490
12T	1.0	1.5	0.6	1.0	26.7	0.3	1.9	33.1	2.2	1,670
14T	1.0	1.5	0.6	1.2	28.7	0.3	2.0	34.8	2.2	1,950
16T	1.0	1.5	0.6	1.2	30.6	0.4	2.1	37.3	2.2	2,280
19T	1.0	1.5	0.6	1.2	33.0	0.4	2.2	40.1	2.3	2,610
24T	1.0	1.5	0.6	1.2	36.7	0.4	2.3	44.3	2.8	3,150
32T	1.0	1.5	0.6	1.4	42.6	0.4	2.6	50.8	3.0	4,140
1T	1.5	1.8	0.7	1.0	10.1	0.3	1.3	14.0	0.9	330
2T	1.5	1.8	0.7	1.0	16.5	0.3	1.5	20.9	1.1	660
3T	1.5	1.8	0.7	1.0	17.6	0.3	1.6	22.1	1.3	780
4T	1.5	1.8	0.7	1.0	19.5	0.3	1.6	24.1	1.3	920
5T	1.5	1.8	0.7	1.0	21.7	0.3	1.7	26.5	1.3	1,100
6T	1.5	1.8	0.7	1.0	24.8	0.3	1.8	29.7	1.5	1,330
7T	1.5	1.8	0.7	1.0	24.8	0.3	1.8	29.7	1.5	1,390
8T	1.5	1.8	0.7	1.0	26.6	0.3	1.9	31.7	1.5	1,560
10T	1.5	1.8	0.7	1.2	31.2	0.4	2.1	36.9	1.9	2,140
12T	1.5	1.8	0.7	1.2	33.1	0.4	2.2	38.9	2.0	2,420
14T	1.5	1.8	0.7	1.2	34.6	0.4	2.3	40.5	2.1	2,670
16T	1.5	1.8	0.7	1.2	36.8	0.4	2.3	42.8	2.1	2,950
19T	1.5	1.8	0.7	1.4	40.3	0.4	2.5	46.6	2.4	3,510
24T	1.5	1.8	0.7	1.4	44.7	0.4	2.7	51.4	2.6	4,250
32T	1.5	1.8	0.7	1.6	52.1	0.4	3.0	59.2	3.0	5,650
1T	2.5	2.4	0.7	1.0	10.9	0.3	1.3	15.0	0.9	390
2T	2.5	2.4	0.7	1.0	17.9	0.3	1.6	22.6	1.0	790
3T	2.5	2.4	0.7	1.0	19.1	0.3	1.6	23.8	1.0	940
4T	2.5	2.4	0.7	1.0	21.2	0.3	1.7	26.1	1.1	1,140
5T	2.5	2.4	0.7	1.0	23.7	0.3	1.8	28.8	1.2	1,370
6T	2.5	2.4	0.7	1.0	27.0	0.3	1.9	32.3	1.3	1,650
7T	2.5	2.4	0.7	1.0	27.0	0.3	1.9	32.3	1.3	1,740
8T	2.5	2.4	0.7	1.2	29.8	0.3	2.0	35.1	1.6	2,070
10T	2.5	2.4	0.7	1.2	34.0	0.4	2.2	40.1	1.7	2,670
12T	2.5	2.4	0.7	1.2	36.0	0.4	2.3	42.3	1.8	3,020
14T	2.5	2.4	0.7	1.2	37.7	0.4	2.4	44.2	1.8	3,360
16T	2.5	2.4	0.7	1.4	40.6	0.4	2.5	47.3	1.9	3,840
19T	2.5	2.4	0.7	1.4	43.9	0.4	2.6	50.8	2.0	4,430
24T	2.5	2.4	0.7	1.6	49.4	0.4	2.8	56.6	2.3	5,560
32T	2.5	2.4	0.7	1.6	56.9	0.4	3.1	64.7	2.6	7,200

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

250V BFOU(i), 250V BFOU(i&c), 250V BFBU(i), 250V BFBU(i&c), 250V BFCU(i), 250V BFCU(i&c) (Fire resistant with water) / Class2 Conductor
250V FX-BFOU(i&c), 250V FX-BFBU(i), 250V FX-BFBU(i&c), 250V FX-BFCU(i), 250V FX-BFCU(i&c) (Fire resistant with water) / Class5 Conductor (PAIR TYPE)

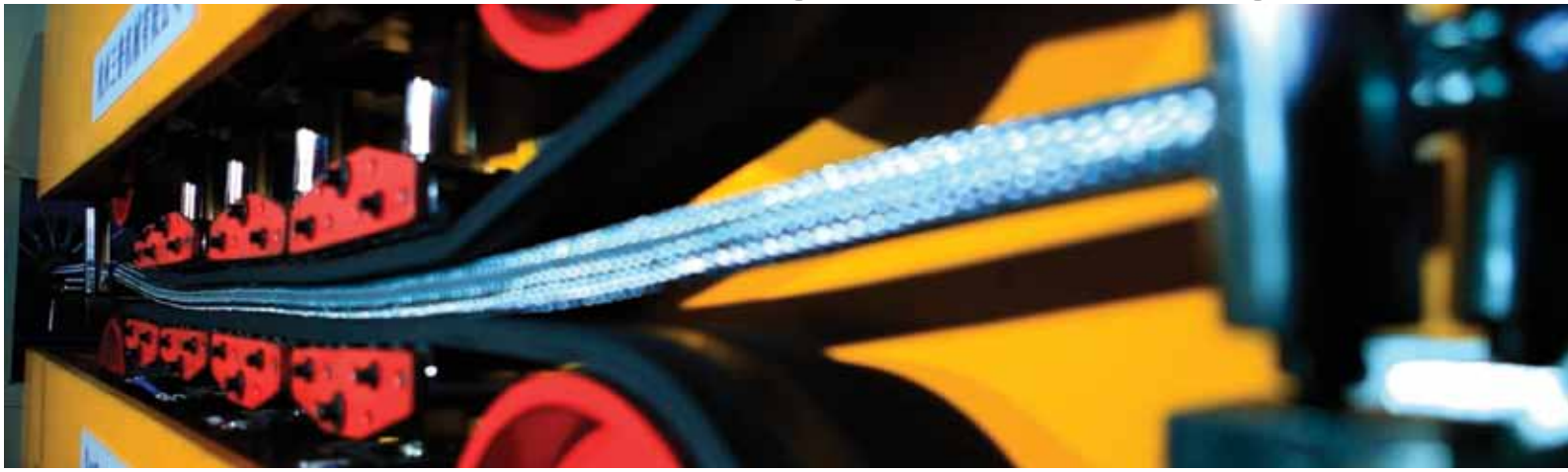
No. of Pairs	Conductor		Thickness of Insulation	Thickness of inner covering	Nomina dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
1P	0.75	1.3	0.6	1.0	8.1	0.3	1.2	12.0	0.8	240
2P	0.75	1.3	0.6	1.0	12.9	0.3	1.4	17.2	0.8	440
3P	0.75	1.3	0.6	1.0	13.7	0.3	1.4	18.0	0.8	500
4P	0.75	1.3	0.6	1.0	15.0	0.3	1.5	19.5	0.9	590
5P	0.75	1.3	0.6	1.0	16.8	0.3	1.5	21.3	0.9	690
6P	0.75	1.3	0.6	1.0	17.5	0.3	1.6	22.2	1.0	760
7P	0.75	1.3	0.6	1.0	17.5	0.3	1.6	22.2	1.0	780
8P	0.75	1.3	0.6	1.0	19.3	0.3	1.6	24.0	1.0	890
10P	0.75	1.3	0.6	1.0	22.0	0.3	1.7	26.9	1.1	1,090
12P	0.75	1.3	0.6	1.0	22.9	0.3	1.8	28.0	1.1	1,200
14P	0.75	1.3	0.6	1.0	24.2	0.3	1.8	29.3	1.2	1,320
16P	0.75	1.3	0.6	1.0	26.0	0.3	1.9	31.3	1.2	1,490
19P	0.75	1.3	0.6	1.0	26.6	0.3	1.9	31.9	1.3	1,610
24P	0.75	1.3	0.6	1.2	32.0	0.4	2.1	37.9	1.6	2,260
32P	0.75	1.3	0.6	1.2	34.7	0.4	2.3	40.9	1.8	2,720
1P	1.0	1.5	0.6	1.0	8.5	0.3	1.2	12.4	0.8	250
2P	1.0	1.5	0.6	1.0	13.6	0.3	1.4	17.9	0.8	480
3P	1.0	1.5	0.6	1.0	14.4	0.3	1.4	18.7	0.9	550
4P	1.0	1.5	0.6	1.0	15.9	0.3	1.5	20.4	0.9	650
5P	1.0	1.5	0.6	1.0	17.8	0.3	1.6	22.5	1.0	780
6P	1.0	1.5	0.6	1.0	18.5	0.3	1.6	23.2	1.0	840
7P	1.0	1.5	0.6	1.0	18.5	0.3	1.6	23.2	1.0	880
8P	1.0	1.5	0.6	1.0	20.4	0.3	1.7	25.3	1.1	1,010
10P	1.0	1.5	0.6	1.0	23.3	0.3	1.8	28.4	1.2	1,230
12P	1.0	1.5	0.6	1.0	24.3	0.3	1.8	29.4	1.2	1,350
14P	1.0	1.5	0.6	1.0	25.6	0.3	1.9	30.9	1.2	1,510
16P	1.0	1.5	0.6	1.2	28.4	0.3	2.0	33.7	1.5	1,810
19P	1.0	1.5	0.6	1.2	29.0	0.3	2.0	34.3	1.5	1,950
24P	1.0	1.5	0.6	1.2	33.9	0.4	2.2	40.0	1.7	2,580
32P	1.0	1.5	0.6	1.2	36.8	0.4	2.3	43.1	1.8	3,090
1P	1.5	1.8	0.7	1.0	9.5	0.3	1.2	13.3	0.8	290
2P	1.5	1.8	0.7	1.0	15.3	0.3	1.5	19.8	0.9	580
3P	1.5	1.8	0.7	1.0	16.3	0.3	1.5	20.7	1.0	660
4P	1.5	1.8	0.7	1.0	18.0	0.3	1.6	22.6	1.2	790
5P	1.5	1.8	0.7	1.0	20.2	0.3	1.7	25.0	1.2	950
6P	1.5	1.8	0.7	1.0	21.0	0.3	1.7	25.8	1.3	1,030
7P	1.5	1.8	0.7	1.0	21.0	0.3	1.7	25.8	1.3	1,070
8P	1.5	1.8	0.7	1.0	23.2	0.3	1.8	28.2	1.3	1,240
10P	1.5	1.8	0.7	1.0	26.6	0.3	1.9	31.8	1.5	1,520
12P	1.5	1.8	0.7	1.2	28.5	0.3	2.0	33.7	1.7	1,790
14P	1.5	1.8	0.7	1.2	30.0	0.3	2.1	35.2	1.9	1,990
16P	1.5	1.8	0.7	1.2	32.3	0.4	2.2	38.1	2.0	2,340
19P	1.5	1.8	0.7	1.2	33.0	0.4	2.2	38.9	2.0	2,520
24P	1.5	1.8	0.7	1.4	39.0	0.4	2.4	45.3	2.1	3,290
32P	1.5	1.8	0.7	1.4	42.4	0.4	2.6	49.0	2.4	3,980
1P	2.5	2.4	0.7	1.0	10.3	0.3	1.3	14.4	0.8	350
2P	2.5	2.4	0.7	1.0	16.7	0.3	1.5	21.2	0.9	680
3P	2.5	2.4	0.7	1.0	17.8	0.3	1.6	22.5	1.0	800
4P	2.5	2.4	0.7	1.0	19.6	0.3	1.6	24.3	1.0	950
5P	2.5	2.4	0.7	1.0	22.1	0.3	1.7	27.0	1.1	1,150
6P	2.5	2.4	0.7	1.0	23.0	0.3	1.8	28.1	1.1	1,270
7P	2.5	2.4	0.7	1.0	23.0	0.3	1.8	28.1	1.1	1,340
8P	2.5	2.4	0.7	1.0	25.4	0.3	1.9	30.7	1.2	1,540
10P	2.5	2.4	0.7	1.2	30.0	0.3	2.1	35.4	1.7	2,030
12P	2.5	2.4	0.7	1.2	31.2	0.4	2.1	37.1	1.7	2,330
14P	2.5	2.4	0.7	1.2	32.9	0.4	2.2	39.0	1.7	2,600
16P	2.5	2.4	0.7	1.2	35.4	0.4	2.3	41.7	1.8	2,930
19P	2.5	2.4	0.7	1.2	36.2	0.4	2.3	42.5	1.8	3,190
24P	2.5	2.4	0.7	1.4	42.8	0.4	2.6	49.7	2.0	4,180
32P	2.5	2.4	0.7	1.4	46.6	0.4	2.7	53.7	2.1	5,080

Instrumentation & Communication Cable

250V BFOU(i), 250V BFOU(i&c), 250V BFBU(i), 250V BFBU(i&c), 250V BFCU(i), 250V BFCU(i&c) (Fire resistant with water) / Class2 Conductor
250V FX-BFOU(i&c), 250V FX-BFBU(i), 250V FX-BFBU(i&c), 250V FX-BFCU(i), 250V FX-BFCU(i&c) (Fire resistant with water) / Class5 Conductor (TRIAD TYPE)

No. of Triads	Conductor		Thickness of Insulation	Thickness of inner covering	Nomina dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight Approx.
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	SQMM	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
1T	0.75	1.3	0.6	1.0	8.5	0.3	1.2	12.4	0.8	260
2T	0.75	1.3	0.6	1.0	13.7	0.3	1.4	18.0	0.8	490
3T	0.75	1.3	0.6	1.0	14.6	0.3	1.4	19.0	0.8	560
4T	0.75	1.3	0.6	1.0	16.1	0.3	1.5	20.7	0.9	670
5T	0.75	1.3	0.6	1.0	17.9	0.3	1.6	22.7	1.0	800
6T	0.75	1.3	0.6	1.0	20.3	0.3	1.7	25.3	1.1	950
7T	0.75	1.3	0.6	1.0	20.3	0.3	1.7	25.3	1.1	990
8T	0.75	1.3	0.6	1.0	21.8	0.3	1.7	26.8	1.1	1,100
10T	0.75	1.3	0.6	1.0	24.8	0.3	1.8	30.1	1.1	1,340
12T	0.75	1.3	0.6	1.0	26.3	0.3	1.9	31.7	1.2	1,520
14T	0.75	1.3	0.6	1.2	28.3	0.3	2.0	33.7	1.4	1,780
16T	0.75	1.3	0.6	1.2	30.1	0.4	2.1	36.0	1.7	2,070
19T	0.75	1.3	0.6	1.2	32.6	0.4	2.2	38.8	1.7	2,370
24T	0.75	1.3	0.6	1.2	36.2	0.4	2.3	42.6	1.7	2,850
32T	0.75	1.3	0.6	1.4	42.0	0.4	2.5	48.9	1.9	3,720
1T	1.0	1.5	0.6	1.0	8.6	0.3	1.2	12.7	0.9	270
2T	1.0	1.5	0.6	1.0	13.8	0.3	1.4	18.5	1.3	520
3T	1.0	1.5	0.6	1.0	14.8	0.3	1.4	19.6	1.4	610
4T	1.0	1.5	0.6	1.0	16.3	0.3	1.5	21.2	1.4	720
5T	1.0	1.5	0.6	1.0	18.1	0.3	1.6	23.3	1.5	860
6T	1.0	1.5	0.6	1.0	20.6	0.3	1.7	26.1	1.7	1,030
7T	1.0	1.5	0.6	1.0	20.6	0.3	1.7	26.1	1.7	1,080
8T	1.0	1.5	0.6	1.0	22.1	0.3	1.7	27.7	1.9	1,200
10T	1.0	1.5	0.6	1.0	25.2	0.3	1.9	31.2	2.0	1,490
12T	1.0	1.5	0.6	1.0	26.7	0.3	1.9	33.1	2.2	1,670
14T	1.0	1.5	0.6	1.2	28.7	0.3	2.0	34.8	2.2	1,950
16T	1.0	1.5	0.6	1.2	30.6	0.4	2.1	37.3	2.2	2,280
19T	1.0	1.5	0.6	1.2	33.0	0.4	2.2	40.1	2.3	2,610
24T	1.0	1.5	0.6	1.2	36.7	0.4	2.3	44.3	2.8	3,150
32T	1.0	1.5	0.6	1.4	42.6	0.4	2.6	50.8	3.0	4,140
1T	1.5	1.8	0.7	1.0	10.1	0.3	1.3	14.0	0.9	330
2T	1.5	1.8	0.7	1.0	16.5	0.3	1.5	20.9	1.1	660
3T	1.5	1.8	0.7	1.0	17.6	0.3	1.6	22.1	1.3	780
4T	1.5	1.8	0.7	1.0	19.5	0.3	1.6	24.1	1.3	920
5T	1.5	1.8	0.7	1.0	21.7	0.3	1.7	26.5	1.3	1,100
6T	1.5	1.8	0.7	1.0	24.8	0.3	1.8	29.7	1.5	1,330
7T	1.5	1.8	0.7	1.0	24.8	0.3	1.8	29.7	1.5	1,390
8T	1.5	1.8	0.7	1.0	26.6	0.3	1.9	31.7	1.5	1,560
10T	1.5	1.8	0.7	1.2	31.2	0.4	2.1	36.9	1.9	2,140
12T	1.5	1.8	0.7	1.2	33.1	0.4	2.2	38.9	2.0	2,420
14T	1.5	1.8	0.7	1.2	34.6	0.4	2.3	40.5	2.1	2,670
16T	1.5	1.8	0.7	1.2	36.8	0.4	2.3	42.8	2.1	2,950
19T	1.5	1.8	0.7	1.4	40.3	0.4	2.5	46.6	2.4	3,510
24T	1.5	1.8	0.7	1.4	44.7	0.4	2.7	51.4	2.6	4,250
32T	1.5	1.8	0.7	1.6	52.1	0.4	3.0	59.2	3.0	5,650
1T	2.5	2.4	0.7	1.0	10.9	0.3	1.3	15.0	0.9	390
2T	2.5	2.4	0.7	1.0	17.9	0.3	1.6	22.6	1.0	790
3T	2.5	2.4	0.7	1.0	19.1	0.3	1.6	23.8	1.0	940
4T	2.5	2.4	0.7	1.0	21.2	0.3	1.7	26.1	1.1	1,140
5T	2.5	2.4	0.7	1.0	23.7	0.3	1.8	28.8	1.2	1,370
6T	2.5	2.4	0.7	1.0	27.0	0.3	1.9	32.3	1.3	1,650
7T	2.5	2.4	0.7	1.0	27.0	0.3	1.9	32.3	1.3	1,740
8T	2.5	2.4	0.7	1.2	29.8	0.3	2.0	35.1	1.6	2,070
10T	2.5	2.4	0.7	1.2	34.0	0.4	2.2	40.1	1.7	2,670
12T	2.5	2.4	0.7	1.2	36.0	0.4	2.3	42.3	1.8	3,020
14T	2.5	2.4	0.7	1.2	37.7	0.4	2.4	44.2	1.8	3,360
16T	2.5	2.4	0.7	1.4	40.6	0.4	2.5	47.3	1.9	3,840
19T	2.5	2.4	0.7	1.4	43.9	0.4	2.6	50.8	2.0	4,430
24T	2.5	2.4	0.7	1.6	49.4	0.4	2.8	56.6	2.3	5,560
32T	2.5	2.4	0.7	1.6	56.9	0.4	3.1	64.7	2.6	7,200

Earthing & Bonding wire



Earthing & Bonding wire

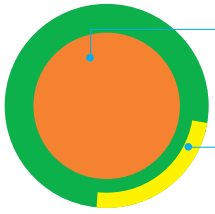
Cable Designation (P108)

0.6/1kV UX

Application Standard

- Design guide : NEK-606 & IEC 60092-353
- Flame retardant : IEC 60332-1 & IEC 60332-3 Category A
- Halogen content : IEC 60754-1, 0.5% ↓
- Cold bend / impact : CSA 22.2 No.03 (-40℃/-35℃)
- Mud / Oil resistant : NEK-606 (Category a, b, c, d)
- Smoke light transmittance : IEC 61034, 60% ↑
- Sunlight (UV) resistant : UL 1581

Construction

Sectional view	Classification	Code	Construction detail
	Conductor	FX-	- Stranded tinned annealed copper wires as per IEC 60228, Class 2 - Option : Stranded tinned annealed copper wires as per IEC 60228, Class 5 (FX-added)
	Insulation	UX	- SHF2 as per IEC 60092-360 - Option : NEK-606 (Category a, b, c, d) / Mud or oil resistant
		-	Insulation color : Yellow/Green (Green base with yellow strip) or Green

0.6/1kV UX / Class2 Conductor

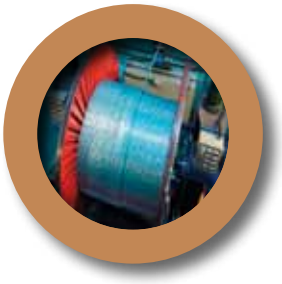
No. of Cores	Conductor			Thickness of Insulation	Overall diameter		Conductor Resistance (at 20℃) (Max.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.		Nominal	Tolerance			
No.	mm^2	EA	mm	mm	mm	±mm	Ω/km	V/5min.	kg/km
1	1.0	7	1.4	1.0	3.5	0.4	18.2	3,500	26
	1.5	7	1.7	1.0	3.8	0.5	12.2	3,500	33
	2.5	7	2.2	1.0	4.2	0.5	7.56	3,500	43
	4	7	2.7	1.0	4.7	0.5	4.70	3,500	59
	6	7	3.3	1.0	5.3	0.5	3.11	3,500	81
	10	7	4.2	1.0	6.2	0.5	1.84	3,500	120
	16	7	5.3	1.0	7.2	0.6	1.16	3,500	180
	25	7	6.6	1.2	8.9	0.7	0.734	3,500	280
	35	7	7.9	1.2	10.0	0.7	0.529	3,500	380
	50	19	9.1	1.4	11.8	0.8	0.391	3,500	510
	70	19	11.0	1.6	13.9	0.9	0.270	3,500	730
	95	19	12.9	1.6	15.8	0.9	0.195	3,500	980
	120	37	14.5	1.6	17.3	1.0	0.154	3,500	1,210
	150	37	16.2	1.8	19.2	1.1	0.126	3,500	1,480
	185	37	18.0	2.0	21.5	1.2	0.100	3,500	1,860
	240	61	20.6	2.2	24.5	1.3	0.0762	3,500	2,440
	300	61	23.1	2.4	27.2	1.4	0.0607	3,500	3,030

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV UX / Class5 Conductor

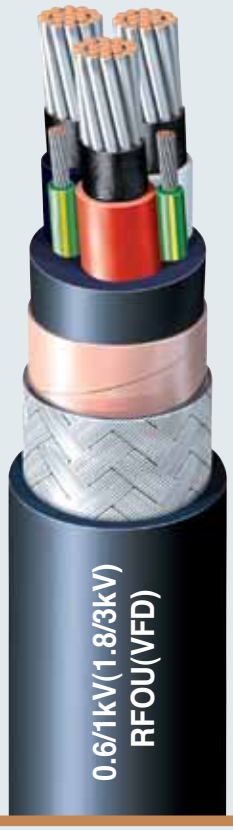
No. of Cores	Conductor			Thickness of Insulation	Overall diameter		Conductor Resistance (at 20℃) (Max.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.		Nominal	Tolerance			
No.	mm^2	EA	mm	mm	mm	±mm	Ω/km	V/5min.	kg/km
1	1.0	0.21	1.5	1.0	3.5	0.4	20.0	3,500	26
	1.5	0.26	1.8	1.0	3.8	0.5	13.7	3,500	32
	2.5	0.26	2.4	1.0	4.3	0.5	8.21	3,500	44
	4	0.31	3.0	1.0	4.8	0.5	5.09	3,500	60
	6	0.31	3.9	1.0	5.4	0.5	3.39	3,500	81
	10	0.41	5.1	1.0	6.3	0.6	1.95	3,500	120
	16	0.41	6.3	1.0	7.8	0.6	1.24	3,500	180
	25	0.41	7.8	1.2	9.7	0.7	0.795	3,500	270
	35	0.41	9.2	1.2	10.9	0.7	0.565	3,500	370
	50	0.41	11.0	1.4	12.9	0.8	0.393	3,500	530
	70	0.51	13.1	1.6	15.2	0.9	0.277	3,500	750
	95	0.51	15.1	1.6	16.9	1.0	0.210	3,500	960
	120	0.51	17.0	1.6	18.7	1.0	0.164	3,500	1,210
	150	0.51	19.0	1.8	20.9	1.1	0.132	3,500	1,510
	185	0.51	21.0	2.0	22.8	1.2	0.108	3,500	1,840
	240	0.51	24.0	2.2	25.9	1.3	0.0817	3,500	2,410
	300	0.51	27.0	2.4	28.9	1.5	0.0654	3,500	3,040



VFD Cable

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376



Cable Designation

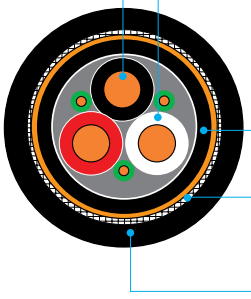
0.6/1KV(1.8/3KV) RFOU(VFD)

1.8/3KV RFOU(VFD)

Application Standard

- Design guide : NEK-606 & IEC 60092-353
- Flame retardant : IEC 60332-1 & IEC 60332-3 Category A
- Halogen content : IEC 60754-1, 0.5% ↓
- Cold bend / impact : CSA 22.2 No.03 (-40℃/-35℃)
- Mud / Oil resistant : NEK-606 (Category a, b, c, d)
- Smoke light transmittance : IEC 61034, 60% ↑
- Sunlight (UV) resistant : UL 1581

Construction

Sectional view	Classification	Code	Construction detail
	Conductor	FX-	- Stranded tinned annealed copper wires as per IEC 60228, Class 2 - Option : Stranded tinned annealed copper wires as per IEC 60228, Class 5 (FX-added)
	Insulation	R	- EPR as per IEC 60092-360
	Cabling		- Insulated cores shall be cabled - Flame retardant & non-hygroscopic fillers may be used - Suitable tape(s) may be applied on the cabled core - A Filler may be applied to obtain a circular Cable
	Inner covering	F	- Flame retardant halogen free thermoset compound
	Armor (Screen)	(VFD)	- CU/PS tape providing 100% Coverage
		O	- Braid of tinned annealed copper wire - A suitable seperator tape(s) may be applied under/over the armor
	Sheath	U	- SHF2 as per IEC 60092-360 - Option : NEK-606 (Category a, b, c, d) / Mud or oil resistant - Outer sheath color : Black
	Core identification		- 3C+3E : Off-white, Black, Red + G/Y

Note. Earth core(G/Y) : Yellow/Green(Green base color with yellow stripe)

VFD Cable

0.6/1kV(1.8/3kV) RFOU(VFD), 0.6/1kV(1.8/3kV) RFBU(VFD) / Class2 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
3C	10	4.2	2.2	1.0	22.0	0.3	1.8	27.8	1.4	1,310
3E	4	2.7	1.0							
3C	16	5.3	2.2	1.0	24.1	0.3	1.8	29.9	1.5	1,630
3E	6	3.3	1.0							
3C	25	6.6	2.2	1.0	25.7	0.3	1.9	31.7	1.6	1,970
3E	6	3.3	1.0							
3C	35	7.9	2.2	1.2	28.7	0.3	2.0	34.9	1.7	2,420
3E	6	3.3	1.0							
3C	50	9.1	2.2	1.2	31.5	0.4	2.2	38.5	1.8	3,160
3E	10	4.2	1.0							
3C	70	11.0	2.2	1.2	35.4	0.4	2.3	42.6	2.0	4,150
3E	16	5.3	1.0							
3C	95	12.9	2.4	1.4	40.7	0.4	2.5	48.3	2.2	5,330
3E	16	5.3	1.0							
3C	120	14.5	2.4	1.4	44.2	0.4	2.7	52.2	2.4	6,540
3E	25	6.6	1.2							
3C	150	16.2	2.4	1.4	47.6	0.4	2.8	55.8	2.5	7,590
3E	25	6.6	1.2							
3C	185	18.0	2.4	1.6	51.9	0.4	3.0	60.5	2.7	9,230
3E	35	7.9	1.2							
3C	240	20.6	2.4	1.6	57.7	0.4	3.2	66.7	3.0	11,690
3E	50	9.1	1.4							

0.6/1kV(1.8/3kV) FX-RFOU(VFD), 0.6/1kV(1.8/3kV) FX-RFBU(VFD) / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
3C	10	5.1	2.2	1.0	22.1	0.3	1.8	27.9	1.4	1,320
3E	4	3.0	1.0							
3C	16	6.3	2.2	1.0	24.8	0.3	1.9	30.8	1.5	1,680
3E	6	3.9	1.0							
3C	25	7.8	2.2	1.2	28.3	0.3	2.0	34.5	1.7	2,140
3E	6	3.9	1.0							
3C	35	9.2	2.2	1.2	31.3	0.4	2.1	38.1	1.8	2,710
3E	6	3.9	1.0							
3C	50	11.0	2.2	1.2	34.7	0.4	2.3	41.9	2.0	3,520
3E	10	5.1	1.0							
3C	70	13.1	2.2	1.4	39.2	0.4	2.5	46.8	2.2	4,550
3E	16	6.3	1.0							
3C	95	15.1	2.4	1.4	44.0	0.4	2.7	52.0	2.4	5,640
3E	16	6.3	1.0							
3C	120	17.0	2.4	1.4	47.8	0.4	2.8	56.0	2.5	6,880
3E	25	7.8	1.2							
3C	150	19.0	2.4	1.6	52.1	0.4	3.0	60.7	2.7	8,120
3E	25	7.8	1.2							
3C	185	21.0	2.4	1.6	56.2	0.4	3.1	65.0	2.9	9,620
3E	35	9.2	1.2							
3C	240	24.0	2.4	1.6	63.1	0.4	3.4	72.5	3.2	12,390
3E	50	11.0	1.4							

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

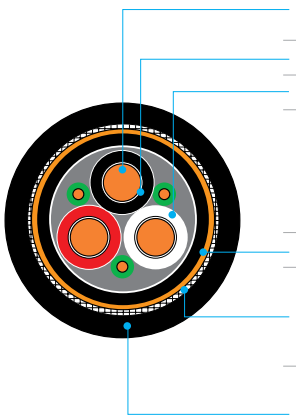
Cable Designation

0.6/1KV(1.8/3KV) BFOU(VFD), 1.8/3KV BFOU(VFD)

Application Standard

- Design guide	: NEK-606 & IEC 60092-353
- Flame retardant	: IEC 60332-1 & IEC 60332-3 Category A
- Fire resistance	: IEC 60331-21(90min) & IEC 60331-1,-2(120min) Option : EN 50200(15min) / BS 8491(5min)
- Halogen content	: IEC 60754-1, 0.5% ↓
- Cold bend / impact	: CSA 22.2 No.03 (-40℃/-35℃)
- Mud / Oil resistant	: NEK-606 (Category a, b, c, d)
- Smoke light transmittance	: IEC 61034, 60% ↑
- Sunlight (UV) resistant	: UL 1581

Construction

Sectional view	Classification	Code	Construction detail
	Conductor	FX-	- Stranded tinned annealed copper wires as per IEC 60228, Class 2 - Option : Stranded tinned annealed copper wires as per IEC 60228, Class 5 (FX-added)
	Fire resisting layer	B	- Mica/glass tape
	Insulation		- EPR as per IEC 60092-360
	Cabling		- Insulated cores shall be cabled - Flame retardant & non-hygroscopic fillers may be used - Suitable tape(s) may be applied on the cabled core - A Filler may be applied to obtain a circular Cable
	Inner covering	F	- Flame retardant halogen free thermoset compound
	Armor (Screen)	(VFD)	- CU/PS tape providing 100% Coverage
		O	- Braid of tinned annealed copper wire - A suitable seperator tape(s) may be applied under/over the armor
	Sheath	U	- SHF2 as per IEC 60092-360 - Option : NEK-606 (Category a, b, c, d) / Mud or oil resistant - Outer sheath color : Black
	Core identification		- 3C+3E : Off-white, Black, Red + G/Y

Note. Earth core(G/Y) : Yellow/Green(Green base color with yellow stripe)

VFD Cable

0.6/1kV(1.8/3kV) BFOU(VFD), 0.6/1kV(1.8/3kV) BFBU(VFD) / Class2 Conductor

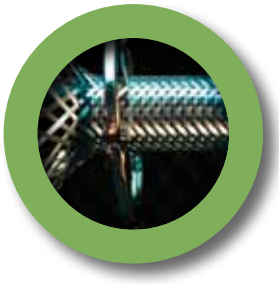
No. of Cores	Conductor		Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
3C	10	4.2	2.2	1.0	23.6	0.3	1.8	29.4	1.5	1,410
3E	4	2.7	1.0							
3C	16	5.3	2.2	1.0	25.8	0.3	1.9	31.8	1.6	1,760
3E	6	3.3	1.0							
3C	25	6.6	2.2	1.0	26.8	0.3	2.0	33.0	1.6	2,070
3E	6	3.3	1.0							
3C	35	7.9	2.2	1.2	29.8	0.4	2.1	36.6	1.8	2,630
3E	6	3.3	1.0							
3C	50	9.1	2.2	1.2	32.8	0.4	2.2	39.8	1.9	3,270
3E	10	4.2	1.0							
3C	70	11.0	2.2	1.2	36.7	0.4	2.4	44.1	2.1	4,300
3E	16	5.3	1.0							
3C	95	12.9	2.4	1.4	42.0	0.4	2.6	49.8	2.3	5,490
3E	16	5.3	1.0							
3C	120	14.5	2.4	1.4	45.5	0.4	2.7	53.5	2.4	6,690
3E	25	6.6	1.2							
3C	150	16.2	2.4	1.6	49.3	0.4	2.9	57.7	2.6	7,800
3E	25	6.6	1.2							
3C	185	18.0	2.4	1.6	53.4	0.4	3.0	62.0	2.8	9,420
3E	35	7.9	1.2							
3C	240	20.6	2.4	1.6	59.0	0.4	3.3	68.2	3.0	11,900
3E	50	9.1	1.4							

0.6/1kV(1.8/3kV) FX-BFOU(VFD), 0.6/1kV(1.8/3kV) FX-BFBU(VFD) / Class5 Conductor

No. of Cores	Conductor		Thickness of Insulation	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter		Cable Weight
	Nominal Area	Max. overall dia.						Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	±mm	kg/km
3C	10	5.1	2.2	1.0	24.0	0.3	1.8	29.8	1.5	1,450
3E	4	3.0	1.0							
3C	16	6.3	2.2	1.2	27.6	0.3	2.0	33.8	1.7	1,900
3E	6	3.9	1.0							
3C	25	7.8	2.2	1.2	29.3	0.3	2.1	35.7	1.7	2,240
3E	6	3.9	1.0							
3C	35	9.2	2.2	1.2	32.4	0.4	2.2	39.4	1.9	2,840
3E	6	3.9	1.0							
3C	50	11.0	2.2	1.2	35.8	0.4	2.3	43.0	2.0	3,640
3E	10	5.1	1.0							
3C	70	13.1	2.2	1.4	41.6	0.4	2.6	49.4	2.3	4,870
3E	16	6.3	1.0							
3C	95	15.1	2.4	1.4	45.0	0.4	2.7	53.0	2.4	5,770
3E	16	6.3	1.0							
3C	120	17.0	2.4	1.6	50.2	0.4	2.9	58.6	2.6	7,210
3E	25	7.8	1.2							
3C	150	19.0	2.4	1.6	53.2	0.4	3.0	61.8	2.8	8,300
3E	25	7.8	1.2							
3C	185	21.0	2.4	1.6	57.3	0.4	3.2	66.3	3.0	9,840
3E	35	9.2	1.2							
3C	240	24.0	2.4	1.8	65.6	0.4	3.5	75.2	3.3	12,830
3E	50	11.0	1.4							

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376



HCF Cable

HCF Cable

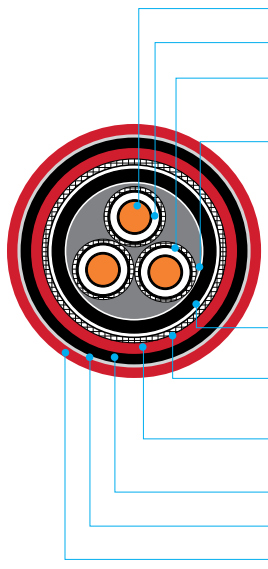
Cable Designation (P114, P115)

3.6/6KV RFOU - HCF
6/10KV RFOU - HCF
8.7/15KV RFOU - HCF

Application Standard

- Design guide	: NEK-606 & IEC 60092-354
- Flame retardant	: IEC 60332-1 & IEC 60332-3 Category A
- Halogen content	: IEC 60754-1, 0.5% ↓
- Cold bend / impact	: CSA 22.2 No.03 (-40℃/-35℃)
- Mud / Oil resistant	: NEK-606 (Category a, b, c, d)
- Smoke light transmittance	: IEC 61034, 60% ↑
- Sunlight (UV) resistant	: UL 1581
- Hydrocarbon fire	: NEK-606, 4.7 (30min)
- Fire resistance	: IEC 60331-1 (120min) IEC 60331-21 (120min)

Construction

Sectional view	Classification	Code	Construction detail
	Conductor		- Stranded tinned annealed copper wires as per IEC 60228, Class 2
	Conductor screen		- Semi-conducting layer (tape / compound)
	Insulation	**R**	- EPR as per IEC 60092-360
	Insulation screen		- Non-metallic part : Semi-conducting layer (tape / compound) - Metallic part : Copper wire braid - A suitable separator tape(s) may be applied over the metallic part
	Cabling		- Three metallic braided conductors shall be cabled - Flame retardant & non-hygroscopic fillers may be used - Suitable tape(s) may be applied on the cabled core - A Filler may be applied to obtain a circular Cable
	Inner covering	**F**	- Flame retardant halogen free thermoset compound
	Armor	**O** **(B,C)**	- Braid of tinned copper wire (O) / - Option : Bronze wire braid (B) /galvanized steel wire braid (C)
	Sheath	**U**	- SHF2 or as per IEC 60092-360 - Option : NEK-606 (Category a, b, c, d) / Mud or oil resistant
	HC-fire protection	**HCF**	- Extruded theromoplastic fire protection compound
	Taping		- Fire resistant tape
	Overall sheath		- SHF1 as per IEC 60092-360

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

3.6/6kV RFOU-HCF, RFCU-HCF, RFBU-HCF / Class2 Conductor

No. of Cores	Conductor		Thickness of Insulation	Dia of copper wire for braid	Thickness of inner covering	Nominal dia. inner covering	Dia. of wire for armour	Thickness of sheath	Overall diameter of sheath		Overall diameter of HCF protection		Cable Weight
	Nominal Area	Max. overall dia.							Nominal	Tolerance	Nominal	Tolerance	
No.	mm^2	mm	mm	mm	mm	mm	mm	mm	mm	±mm	mm	±mm	kg/km
1	50	9.1	2.5	0.3	1.0	20.3	0.3	1.6	25.6	1.4	56.0	2.6	4,040
	70	11.0	2.5	0.3	1.0	22.0	0.3	1.7	27.5	1.5	57.9	2.7	4,450
	95	12.9	2.5	0.3	1.0	23.9	0.3	1.8	29.6	1.6	60.2	2.8	4,950
	120	14.5	2.5	0.3	1.0	25.4	0.3	1.8	31.1	1.6	61.9	2.9	5,380
	150	16.2	2.5	0.3	1.0	26.9	0.3	1.9	32.8	1.7	63.6	2.9	5,830
	185	18.0	2.5	0.3	1.0	28.8	0.3	1.9	34.7	1.8	65.7	3.0	6,400
	240	20.6	2.6	0.3	1.2	32.4	0.3	2.0	38.4	1.9	69.6	3.2	7,440
	300	23.1	2.8	0.3	1.2	35.1	0.4	2.2	42.0	2.1	73.4	3.3	8,550
3	50	9.1	2.5	0.3	1.4	42.1	0.4	2.5	49.4	2.4	81.6	3.7	8,920
	70	11.0	2.5	0.3	1.4	45.9	0.4	2.6	53.4	2.5	85.8	3.8	10,170
	95	12.9	2.5	0.3	1.4	49.8	0.4	2.8	57.9	2.7	90.7	4.0	11,710
	120	14.5	2.5	0.3	1.6	53.6	0.4	2.9	61.9	2.9	94.9	4.2	13,190
	150	16.2	2.5	0.3	1.6	56.8	0.4	3.0	65.3	3.0	98.7	4.3	14,630

6/10kV RFOU-HCF, RFCU-HCF, RFBU-HCF / Class2 Conductor

1	50	9.1	3.4	0.3	1.0	22.1	0.3	1.7	27.4	1.5	57.8	2.7	4,280
	70	11.0	3.4	0.3	1.0	23.8	0.3	1.8	29.3	1.6	59.9	2.8	4,720
	95	12.9	3.4	0.3	1.0	25.7	0.3	1.8	31.2	1.6	62.0	2.9	5,200
	120	14.5	3.4	0.3	1.0	27.2	0.3	1.9	32.9	1.7	63.7	2.9	5,640
	150	16.2	3.4	0.3	1.2	29.1	0.3	2.0	35.0	1.8	66.0	3.0	6,180
	185	18.0	3.4	0.3	1.2	31.0	0.3	2.0	36.9	1.9	68.1	3.1	6,760
	240	20.6	3.4	0.3	1.2	34.0	0.4	2.1	40.5	2.0	71.9	3.3	7,850
	300	23.1	3.4	0.3	1.2	36.3	0.4	2.2	43.0	2.1	74.6	3.4	8,750
3	50	9.1	3.4	0.3	1.4	46.0	0.4	2.7	53.7	2.5	86.3	3.9	9,810
	70	11.0	3.4	0.3	1.4	49.7	0.4	2.8	57.8	2.7	90.6	4.0	11,110
	95	12.9	3.4	0.3	1.6	54.1	0.4	2.9	62.4	2.9	95.6	4.2	12,780
	120	14.5	3.4	0.3	1.6	57.5	0.4	3.1	66.2	3.0	99.6	4.4	14,210
	150	16.2	3.4	0.3	1.6	60.7	0.4	3.2	69.6	3.2	103.2	4.5	15,640

8.7/15kV RFOU-HCF, RFCU-HCF, RFBU-HCF / Class2 Conductor

1	50	9.1	4.5	0.3	1.0	24.3	0.3	1.8	29.8	1.6	60.4	2.8	4,630
	70	11.0	4.5	0.3	1.0	26.0	0.3	1.9	31.7	1.7	62.5	2.9	5,090
	95	12.9	4.5	0.3	1.0	27.9	0.3	1.9	33.6	1.7	64.6	3.0	5,570
	120	14.5	4.5	0.3	1.2	29.8	0.3	2.0	35.7	1.8	66.9	3.1	6,120
	150	16.2	4.5	0.3	1.2	31.3	0.3	2.0	37.2	1.9	68.4	3.1	6,550
	185	18.0	4.5	0.3	1.2	33.2	0.4	2.1	39.7	2.0	71.1	3.2	7,300
	240	20.6	4.5	0.3	1.2	36.2	0.4	2.2	42.9	2.1	74.5	3.4	8,290
	300	23.1	4.5	0.4	1.2	38.9	0.4	2.3	45.9	2.2	77.7	3.5	9,330
3	50	9.1	4.5	0.3	1.6	51.1	0.4	2.9	59.4	2.8	92.4	4.1	11,060
	70	11.0	4.5	0.3	1.6	54.9	0.4	3.0	63.3	2.9	96.5	4.3	12,410

Technical Information

Technical Information

O-Route®
NEK-606, IEC 60092-350, 353, 354, 376

ELECTRICAL DATA

1. Current rating for continuous

Conductor temperature	90℃		
Nominal cross-sectional area (mm^2)	Single core (A)	Two core (A)	Three core & four core (A)
1	18	15	13
1.5	23	20	16
2.5	30	26	21
4	40	34	28
6	52	44	36
10	72	61	50
16	96	82	67
25	127	108	89
35	157	133	110
50	196	167	137
70	242	206	169
95	293	249	205
120	339	288	237
150	389	331	273
185	444	377	311
240	522	444	366
300	601	511	420

NOTES)

1. Maximum permissible service temperature of the conductor is 90℃
2. The current ratings given above are based on an ambient air temperature of 45℃
3. The current ratings given above are for 6 cables of less bunched or laid together in flat formation.
   When more than 6 cables are bunched or laid close together, the current ratings given above should be multiplied correction factor 0.85.
   In case of cables not being loaded simultaneously, consideration of the actual loading appertaining is permitted
4. For cables with more than 4 core cables, the current ratings are given by the Formula;

$$I = \frac{I_1}{\sqrt[3]{N}}$$

Where, I_1 **: Current for single core cable**
N : Number of cores

No. of cores	1.0SQMM	1.5SQMM	2.5SQMM
5	11	13	18
7	9	12	16
9	9	11	14
12	8	10	13
14	7	10	12
16	7	9	12
19	7	9	11
24	6	8	10
30	6	7	10
37	5	7	9
44	5	7	8

Maximum conductor temperature	Correction factors for various ambient air temperature									
℃	35	40	45	50	55	60	65	70	75	80
90	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58	0.47

Technical Information

ELECTRICAL DATA

2. Capacitance, Inductance, Reactance, Impedance Data

3.6/6kV RFOU, 3.6/6kV RFCU, 3.6/6kV RFBU

Nominal Area	Single core cable						Multi core cable					
	Capacitance C	Inductance L	Reactance X 50 Hz	Reactance X 60 Hz	Impedance Z at 50 Hz 90℃	Impedance Z at 60 Hz 90℃	Capacitance C	Inductance L	Reactance X 50 Hz	Reactance X 60 Hz	Impedance Z at 50 Hz 90℃	Impedance Z at 60 Hz 90℃
mm^2	㎌/km	mH / km	Ω/km	Ω/km	Ω/km	Ω/km	㎌/km	mH / km	Ω/km	Ω/km	Ω/km	Ω/km
10	0.247	0.458	0.144	0.173	2.351	2.353	0.247	0.324	0.102	0.122	2.348	2.349
16	0.284	0.434	0.136	0.164	1.485	1.488	0.284	0.306	0.096	0.115	1.482	1.484
25	0.328	0.409	0.128	0.154	0.945	0.949	0.328	0.290	0.091	0.109	0.940	0.942
35	0.362	0.393	0.123	0.148	0.686	0.691	0.362	0.281	0.088	0.106	0.680	0.683
50	0.408	0.375	0.118	0.142	0.512	0.518	0.408	0.270	0.085	0.102	0.506	0.509
70	0.466	0.358	0.112	0.135	0.362	0.370	0.466	0.260	0.082	0.098	0.354	0.358
95	0.528	0.343	0.108	0.129	0.273	0.282	0.528	0.252	0.079	0.095	0.263	0.268
120	0.581	0.332	0.104	0.125	0.224	0.234	0.581	0.246	0.077	0.093	0.213	0.219
150	0.624	0.326	0.102	0.123	0.193	0.205	0.624	0.242	0.076	0.091	0.181	0.187
185	0.695	0.317	0.099	0.119	0.165	0.177	0.695	0.237	0.074	0.089	0.151	0.159
240	0.742	0.310	0.097	0.117	0.140	0.154	0.742	0.234	0.073	0.088	0.125	0.134
300	0.770	0.305	0.096	0.115	0.126	0.141	-	-	-	-	-	-

6/10kV RFOU, 6/10kV RFCU, 6/10kV RFBU

Nominal Area	Single core cable						Multi core cable					
	Capacitance C	Inductance L	Reactance X 50 Hz	Reactance X 60 Hz	Impedance Z at 50 Hz 90℃	Impedance Z at 60 Hz 90℃	Capacitance C	Inductance L	Reactance X 50 Hz	Reactance X 60 Hz	Impedance Z at 50 Hz 90℃	Impedance Z at 60 Hz 90℃
mm^2	㎌/km	mH / km	Ω/km	Ω/km	Ω/km	Ω/km	㎌/km	mH / km	Ω/km	Ω/km	Ω/km	Ω/km
16	0.228	0.450	0.141	0.170	1.486	1.489	0.228	0.335	0.105	0.126	1.483	1.484
25	0.261	0.425	0.134	0.160	0.945	0.950	0.261	0.316	0.099	0.119	0.941	0.943
35	0.287	0.407	0.128	0.153	0.687	0.692	0.287	0.305	0.096	0.115	0.681	0.684
50	0.321	0.390	0.123	0.147	0.513	0.520	0.321	0.292	0.092	0.110	0.507	0.511
70	0.365	0.370	0.116	0.140	0.363	0.371	0.365	0.280	0.088	0.106	0.355	0.360
95	0.411	0.355	0.111	0.134	0.275	0.284	0.411	0.270	0.085	0.102	0.265	0.271
120	0.450	0.346	0.109	0.130	0.226	0.237	0.450	0.263	0.083	0.099	0.215	0.222
150	0.484	0.337	0.106	0.127	0.195	0.207	0.484	0.258	0.081	0.097	0.183	0.190
185	0.535	0.330	0.104	0.124	0.167	0.181	0.535	0.251	0.079	0.095	0.153	0.162
240	0.591	0.321	0.101	0.121	0.143	0.158	0.591	0.245	0.077	0.092	0.127	0.137
300	0.651	0.311	0.098	0.117	0.128	0.143	-	-	-	-	-	-

8.7/15kV RFOU, 8.7/15kV RFCU, 8.7/15kV RFBU

Nominal Area	Single core cable						Multi core cable					
	Capacitance C	Inductance L	Reactance X 50 Hz	Reactance X 60 Hz	Impedance Z at 50 Hz 90℃	Impedance Z at 60 Hz 90℃	Capacitance C	Inductance L	Reactance X 50 Hz	Reactance X 60 Hz	Impedance Z at 50 Hz 90℃	Impedance Z at 60 Hz 90℃
mm^2	㎌/km	mH / km	Ω/km	Ω/km	Ω/km	Ω/km	㎌/km	mH / km	Ω/km	Ω/km	Ω/km	Ω/km
25	0.215	0.443	0.139	0.167	0.946	0.951	0.215	0.344	0.108	0.130	0.942	0.945
35	0.235	0.424	0.133	0.160	0.688	0.693	0.235	0.330	0.104	0.125	0.682	0.686
50	0.261	0.406	0.128	0.153	0.515	0.522	0.261	0.316	0.099	0.119	0.508	0.513
70	0.295	0.386	0.121	0.145	0.365	0.374	0.295	0.302	0.095	0.114	0.357	0.363
95	0.330	0.371	0.117	0.140	0.277	0.288	0.330	0.290	0.091	0.109	0.267	0.274
120	0.360	0.362	0.114	0.137	0.229	0.241	0.360	0.281	0.088	0.106	0.217	0.225
150	0.386	0.353	0.111	0.133	0.198	0.211	0.386	0.275	0.086	0.104	0.185	0.194
185	0.424	0.341	0.107	0.129	0.169	0.184	0.424	0.267	0.084	0.101	0.156	0.166
240	0.468	0.332	0.104	0.125	0.145	0.161	0.468	0.260	0.082	0.098	0.130	0.141
300	0.514	0.324	0.102	0.122	0.131	0.147	-	-	-	-	-	-

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV(1.8/3kV) RFOU(VFD), 1.8/3kV RFOU(VFD)

No. of Cores	Nominal Area	Multi core cable					
		Capacitance C	Inductance L	Reactance X 50 Hz	Reactance X 60 Hz	Impedance Z at 50 Hz 90℃	Impedance Z at 60 Hz 90℃
No.	mm²	μF/km	mH / km	Ω/km	Ω/km	Ω/km	Ω/km
3C	25	0.417	0.296	0.093	0.112	0.941	0.943
3E	6						
3C	35	0.455	0.284	0.089	0.107	0.680	0.683
3E	6						
3C	50	0.516	0.272	0.085	0.103	0.506	0.509
3E	10						
3C	70	0.562	0.260	0.082	0.098	0.354	0.358
3E	16						
3C	95	0.582	0.255	0.080	0.096	0.264	0.269
3E	16						
3C	120	0.667	0.249	0.078	0.094	0.213	0.219
3E	25						
3C	150	0.715	0.244	0.077	0.092	0.181	0.188
3E	25						
3C	185	0.736	0.238	0.075	0.090	0.151	0.159
3E	35						
3C	240	0.794	0.233	0.073	0.088	0.125	0.134
3E	50						

0.6/1kV(1.8/3kV) BFOU(VFD), 1.8/3kV BFOU(VFD)

3C	25	0.417	0.305	0.096	0.115	0.941	0.943
3E	6						
3C	35	0.447	0.292	0.092	0.110	0.681	0.683
3E	6						
3C	50	0.500	0.281	0.088	0.106	0.506	0.510
3E	10						
3C	70	0.544	0.268	0.084	0.101	0.354	0.359
3E	16						
3C	95	0.550	0.262	0.082	0.099	0.264	0.270
3E	16						
3C	120	0.603	0.255	0.080	0.096	0.214	0.220
3E	25						
3C	150	0.658	0.250	0.079	0.094	0.182	0.189
3E	25						
3C	185	0.715	0.244	0.077	0.092	0.152	0.160
3E	35						
3C	240	0.770	0.238	0.075	0.090	0.126	0.135
3E	50						

0.6/1kV(1.8/3kV) FX-RFOU(VFD), 1.8/3kV FX-RFOU(VFD)

3C	25	0.455	0.287	0.090	0.108	1.018	1.019
3E	6						
3C	35	0.516	0.276	0.087	0.104	0.726	0.728
3E	6						
3C	50	0.544	0.264	0.083	0.099	0.508	0.511
3E	10						
3C	70	0.596	0.254	0.080	0.096	0.362	0.366
3E	16						
3C	95	0.642	0.251	0.079	0.095	0.282	0.286
3E	16						
3C	120	0.676	0.245	0.077	0.092	0.225	0.230
3E	25						
3C	150	0.747	0.240	0.075	0.090	0.187	0.194
3E	25						
3C	185	0.770	0.235	0.074	0.089	0.160	0.167
3E	35						
3C	240	0.834	0.230	0.072	0.087	0.130	0.139
3E	50						

Technical Information

0.6/1kV(1.8/3kV) FX-BFOU(VFD), 1.8/3kV FX-BFOU(VFD)

No. of Cores	Nominal Area	Multi core cable					
		Capacitance C	Inductance L	Reactance X 50 Hz	Reactance X 60 Hz	Impedance Z at 50 Hz 90℃	Impedance Z at 60 Hz 90℃
No.	mm^2	㎌/km	mH / km	Ω/km	Ω/km	Ω/km	Ω/km
3C	25	0.417	0.296	0.093	0.111	1.018	1.020
3E	6						
3C	35	0.455	0.283	0.089	0.107	0.726	0.728
3E	6						
3C	50	0.527	0.270	0.085	0.102	0.508	0.511
3E	10						
3C	70	0.562	0.260	0.082	0.098	0.362	0.367
3E	16						
3C	95	0.596	0.256	0.080	0.096	0.282	0.287
3E	16						
3C	120	0.642	0.249	0.078	0.094	0.225	0.231
3E	25						
3C	150	0.715	0.244	0.077	0.092	0.188	0.195
3E	25						
3C	185	0.747	0.239	0.075	0.090	0.161	0.168
3E	35						
3C	240	0.782	0.233	0.073	0.088	0.131	0.140
3E	50						

0.6/1kV RFOU, 0.6/1kV RFCU, 0.6/1kV RFBU

Nominal Area	Single core cable *)						Multi core cable					
	Capacitance C	Inductance L	Reactance X 50 Hz	Reactance X 60 Hz	Impedance Z at 50 Hz 90℃	Impedance Z at 60 Hz 90℃	Capacitance C	Inductance L	Reactance X 50 Hz	Reactance X 60 Hz	Impedance Z at 50 Hz 90℃	Impedance Z at 60 Hz 90℃
mm^2	㎌/km	mH / km	Ω/km	Ω/km	Ω/km	Ω/km	㎌/km	mH / km	Ω/km	Ω/km	Ω/km	Ω/km
1.5	0.199	0.546	0.171	0.206	15.557	15.558	0.305	0.356	0.112	0.134	15.557	15.557
2.5	0.237	0.506	0.159	0.191	9.641	9.642	0.345	0.329	0.103	0.124	9.640	9641
4	0.282	0.471	0.148	0.177	5.995	5.996	0.379	0.307	0.096	0.116	5.994	5.994
6	0.326	0.441	0.138	0.166	3.968	3.969	0.435	0.291	0.091	0.110	3.967	3.967
10	0.401	0.409	0.128	0.154	2.350	2.351	0.477	0.272	0.085	0.102	2.348	2.348
16	0.490	0.379	0.119	0.143	1.484	1.486	0.500	0.257	0.081	0.097	1.481	1.482
25	0.509	0.360	0.113	0.136	0.943	0.946	0.589	0.254	0.080	0.096	0.939	0.941
35	0.588	0.342	0.107	0.129	0.683	0.687	0.685	0.245	0.077	0.092	0.679	0.681
50	0.591	0.332	0.104	0.125	0.509	0.514	0.705	0.245	0.077	0.092	0.504	0.507
70	0.705	0.315	0.099	0.119	0.358	0.364	0.715	0.236	0.074	0.089	0.352	0.356
95	0.713	0.307	0.096	0.116	0.269	0.276	0.770	0.235	0.074	0.089	0.262	0.266
120	0.813	0.296	0.093	0.111	0.219	0.228	0.834	0.230	0.072	0.087	0.211	0.216
150	0.793	0.293	0.092	0.110	0.188	0.197	0.834	0.231	0.072	0.087	0.179	0.185
185	0.799	0.289	0.091	0.109	0.160	0.171	0.834	0.232	0.073	0.088	0.150	0.158
240	0.832	0.282	0.089	0.106	0.134	0.147	0.848	0.230	0.072	0.087	0.124	0.133
300	0.857	0.286	0.090	0.108	0.122	0.136	0.848	0.230	0.072	0.087	0.109	0.119

* Reactance for 1-conductor cables given at Three-foil formation

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

0.6/1kV BFOU, 0.6/1kV BFCU, 0.6/1kV BFBU

Nominal Area	Single core cable *)						Multi core cable					
	Capacitance C	Inductance L	Reactance X 50 Hz	Reactance X 60 Hz	Impedance Z at 50 Hz 90℃	Impedance Z at 60 Hz 90℃	Capacitance C	Inductance L	Reactance X 50 Hz	Reactance X 60 Hz	Impedance Z at 50 Hz 90℃	Impedance Z at 60 Hz 90℃
mm^2	μF/km	mH / km	Ω/km	Ω/km	Ω/km	Ω/km	μF/km	mH / km	Ω/km	Ω/km	Ω/km	Ω/km
1.5	0.172	0.556	0.175	0.210	15.557	15.558	0.278	0.382	0.120	0.144	15.557	15.557
2.5	0.203	0.516	0.162	0.195	9.641	9.642	0.309	0.353	0.111	0.133	9.640	9641
4	0.239	0.480	0.151	0.181	5.995	5.996	0.345	0.328	0.103	0.124	5.994	5.994
6	0.276	0.453	0.142	0.171	3.968	3.969	0.385	0.309	0.097	0.117	3.967	3.967
10	0.336	0.417	0.131	0.157	2.350	2.351	0.435	0.288	0.090	0.108	2.348	2.349
16	0.436	0.387	0.121	0.146	1.484	1.486	0.500	0.271	0.085	0.102	1.482	1.483
25	0.461	0.367	0.115	0.138	0.943	0.946	0.527	0.265	0.083	0.100	0.940	0.941
35	0.531	0.348	0.109	0.131	0.683	0.687	0.556	0.255	0.080	0.096	0.679	0.681
50	0.542	0.337	0.106	0.127	0.510	0.515	0.589	0.253	0.080	0.096	0.505	0.508
70	0.644	0.320	0.101	0.121	0.359	0.365	0.695	0.243	0.076	0.092	0.353	0.356
95	0.660	0.311	0.098	0.117	0.269	0.277	0.715	0.242	0.076	0.091	0.262	0.267
120	0.749	0.301	0.094	0.113	0.220	0.228	0.758	0.237	0.074	0.089	0.212	0.217
150	0.738	0.296	0.093	0.112	0.188	0.198	0.758	0.236	0.074	0.089	0.180	0.186
185	0.749	0.291	0.092	0.110	0.160	0.171	0.782	0.235	0.074	0.089	0.151	0.158
240	0.784	0.284	0.089	0.107	0.135	0.147	0.807	0.233	0.073	0.088	0.125	0.134
300	0.811	0.288	0.090	0.108	0.122	0.136	0.820	0.232	0.073	0.087	0.110	0.120

* Reactance for 1-conductor cables given at Three-foil formation

0.6/1kV RU

Nominal Area	Single core cable *)						Multi core cable					
	Capacitance C	Inductance L	Reactance X 50 Hz	Reactance X 60 Hz	Impedance Z at 50 Hz 90℃	Impedance Z at 60 Hz 90℃	Capacitance C	Inductance L	Reactance X 50 Hz	Reactance X 60 Hz	Impedance Z at 50 Hz 90℃	Impedance Z at 60 Hz 90℃
mm^2	μF/km	mH / km	Ω/km	Ω/km	Ω/km	Ω/km	μF/km	mH / km	Ω/km	Ω/km	Ω/km	Ω/km
1.5	0.199	0.451	0.142	0.170	15.557	15.557	0.305	0.356	0.112	0.134	15.557	15.557
2.5	0.237	0.417	0.131	0.157	9.641	9.641	0.345	0.329	0.103	0.124	9.640	9.641
4	0.282	0.387	0.121	0.146	5.994	5.995	0.379	0.307	0.096	0.116	5.994	5.994
6	0.326	0.363	0.114	0.137	3.967	3.968	0.435	0.291	0.091	0.110	3.967	3.967
10	0.401	0.334	0.105	0.126	2.349	2.350	0.477	0.272	0.085	0.102	2.348	2.348
16	0.490	0.316	0.099	0.119	1.482	1.484	0.500	0.257	0.081	0.097	1.481	1.482
25	0.509	0.303	0.095	0.114	0.941	0.943	0.589	0.254	0.080	0.096	0.939	0.941
35	0.588	0.292	0.092	0.110	0.681	0.683	0.685	0.245	0.077	0.092	0.679	0.681
50	0.591	0.288	0.091	0.109	0.507	0.510	0.705	0.245	0.077	0.092	0.504	0.507
70	0.705	0.274	0.086	0.103	0.355	0.359	0.715	0.236	0.074	0.089	0.352	0.356
95	0.713	0.271	0.085	0.102	0.265	0.271	0.770	0.235	0.074	0.089	0.262	0.266
120	0.813	0.264	0.083	0.100	0.215	0.222	0.834	0.230	0.072	0.087	0.211	0.216
150	0.793	0.264	0.083	0.099	0.183	0.192	0.834	0.231	0.072	0.087	0.179	0.185
185	0.799	0.263	0.083	0.099	0.155	0.165	0.834	0.232	0.073	0.088	0.150	0.158
240	0.832	0.259	0.081	0.098	0.130	0.141	0.848	0.230	0.072	0.087	0.124	0.133
300	0.857	0.258	0.081	0.097	0.115	0.127	0.848	0.230	0.072	0.087	0.109	0.119

* Reactance for 1-conductor cables given at Three-foil formation

Technical Information

0.6/1kV BU

Nominal Area	Single core cable *)						Multi core cable					
	Capacitance C	Inductance L	Reactance X 50 Hz	Reactance X 60 Hz	Impedance Z at 50 Hz 90℃	Impedance Z at 60 Hz 90℃	Capacitance C	Inductance L	Reactance X 50 Hz	Reactance X 60 Hz	Impedance Z at 50 Hz 90℃	Impedance Z at 60 Hz 90℃
mm^2	μF/km	mH / km	Ω/km	Ω/km	Ω/km	Ω/km	μF/km	mH / km	Ω/km	Ω/km	Ω/km	Ω/km
1.5	0.172	0.468	0.147	0.176	15.557	15.557	0.278	0.382	0.120	0.144	15.557	15.557
2.5	0.203	0.432	0.136	0.163	9.641	9.641	0.309	0.353	0.111	0.133	9.640	9.641
4	0.239	0.401	0.126	0.151	5.994	5.995	0.345	0.328	0.103	0.124	5.994	5.994
6	0.276	0.376	0.118	0.142	3.967	3.968	0.385	0.309	0.097	0.117	3.967	3.967
10	0.336	0.351	0.110	0.132	2.349	2.350	0.435	0.288	0.090	0.108	2.348	2.349
16	0.436	0.326	0.102	0.123	1.483	1.484	0.500	0.271	0.085	0.102	1.482	1.483
25	0.461	0.315	0.099	0.119	0.941	0.943	0.527	0.265	0.083	0.100	0.940	0.941
35	0.531	0.300	0.094	0.113	0.681	0.684	0.556	0.255	0.080	0.096	0.679	0.681
50	0.542	0.295	0.093	0.111	0.507	0.511	0.589	0.253	0.080	0.096	0.505	0.508
70	0.644	0.283	0.089	0.107	0.356	0.360	0.695	0.243	0.076	0.092	0.353	0.356
95	0.660	0.276	0.087	0.104	0.266	0.272	0.715	0.242	0.076	0.091	0.262	0.267
120	0.749	0.270	0.085	0.102	0.216	0.223	0.758	0.237	0.074	0.089	0.212	0.217
150	0.738	0.268	0.084	0.101	0.184	0.192	0.758	0.236	0.074	0.089	0.180	0.186
185	0.749	0.266	0.083	0.100	0.156	0.165	0.782	0.235	0.074	0.089	0.151	0.158
240	0.784	0.261	0.082	0.098	0.130	0.141	0.807	0.233	0.073	0.088	0.125	0.134
300	0.811	0.260	0.082	0.098	0.116	0.128	0.820	0.232	0.073	0.087	0.110	0.120

* Reactance for 1-conductor cables given at Three-foil formation

250V Instrument & communication cables.

Size		unit	0.75mm^2	1.0mm^2	1.5mm^2	2.5mm^2
Mutual capacitance	Individual screen	nF/km	100	100	120	120
	Collective screen	nF/km	80	80	90	90
Inductance		mH/km	0.75	0.73	0.68	0.68

ELECTRICAL DATA

3. Short circuit current rating

The short circuit currents quoted here are for cables operating normally at maximum conductor temperature of 90℃.
HF EPR insulation is actually capable of withstanding short-term Temperature up to 250℃

According to ICEA P-32-382 Curves based on formula

$$Is = A \times \sqrt{\frac{0.115 \log \frac{(T_2 + 234)}{(T_1 + 234)}}{t}}$$

Where Is : Short Circuit Current (kA)
A : Conductor area (㎟)
T_1 : Operating temperature (90℃)
T_2 : Short Circuit temperature (250℃)
t : Short Circuit duration (sec)

$T_1 = 90$, $T_2 = 250$

Nominal Area mm²	Short circuit currents (kA)													
	Duration of short circuit in second													
	0.03	0.05	0.07	0.1	0.14	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
1.5	1.3	1.0	0.8	0.7	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2
2.5	2.0	1.6	1.3	1.1	0.9	0.8	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.3
4	3.2	2.5	2.1	1.8	1.5	1.3	1.0	0.9	0.8	0.7	0.7	0.6	0.6	0.6
6	4.9	3.8	3.2	2.7	2.3	1.9	1.5	1.3	1.2	1.1	1.0	0.9	0.9	0.8
10	8.2	6.3	5.4	4.5	3.8	3.2	2.6	2.2	2.0	1.8	1.7	1.6	1.5	1.4
16	13.0	10.1	8.5	7.1	6.0	5.0	4.1	3.6	3.2	2.9	2.7	2.5	2.4	2.2
25	20.6	15.9	13.5	11.3	9.5	8.0	6.5	5.6	5.0	4.6	4.3	4.0	3.8	3.6
35	28.5	22.1	18.7	15.6	13.2	11.1	9.0	7.8	7.0	6.4	5.9	5.5	5.2	4.9
50	38.6	29.9	25.3	21.2	17.9	15.0	12.2	10.6	9.5	8.6	8.0	7.5	7.1	6.7
70	55.9	43.3	36.6	30.6	25.9	21.6	17.7	15.3	13.7	12.5	11.6	10.8	10.2	9.7
95	77.5	60.0	50.7	42.4	35.9	30.0	24.5	21.2	19.0	17.3	16.0	15.0	14.1	13.4
120	97.9	75.8	64.1	53.6	45.3	37.9	31.0	26.8	24.0	21.9	20.3	19.0	17.9	17.0
150	120.3	93.1	78.7	65.9	55.7	46.6	38.0	32.9	29.5	26.9	24.9	23.3	22.0	20.8
185	150.8	116.8	98.8	82.6	69.8	58.4	47.7	41.3	36.9	33.7	31.2	29.2	27.5	26.1
240	198.3	153.6	129.8	108.6	91.8	76.8	62.7	54.3	48.6	44.3	41.0	38.4	36.2	34.3
300	248.7	192.6	162.8	136.2	115.1	96.3	78.6	68.1	60.9	55.6	51.5	48.2	45.4	43.1
400	329.3	255.1	215.6	180.4	152.5	127.6	104.1	90.2	80.7	73.6	68.2	63.8	60.1	57.0
500	401.0	310.6	262.5	219.6	185.6	155.3	126.8	109.8	98.2	89.7	83.0	77.7	73.2	69.5

Technical Information

4. Voltage drop

Calculate fomula

1) D.C. circuit

$$\text{Voltage drop rate} = \frac{Rdc \times 2L \times I}{V} \times 100(\%)$$

2) A.C. circuit

$$\text{Voltage drop rate of single-phase A.C.} = \frac{Rac \times 2L \times I}{V} \times \partial \times 100(\%)$$

$$\text{Voltage drop rate of three-phase A.C.} = \frac{Rac \times 2L \times I}{V} \times \frac{\sqrt{3}}{2} \times \partial \times 100(\%)$$

Where
- L : Cable length (km)
- I : Current(A)
- V : Circuit Voltage(V)
- Rdc : D.C. resistance at maximum rated conductor temperature (see following table)
- Rac : A.C. resistance at maximum rated conductor temperature (see following table)
- ∂ : Inductive voltage drop coefficient

Voltage drop coefficient

3.6/6kV RFOU. 3.6/6kV RFCU, 3.6/6kV RFBU

Nominal Area	R-dc (at 20℃)	R-dc (at 90℃)	R-ac (at 90℃)	Inductive voltage drop coefficient						
				Dielectric power factor (at 60HZ & 90℃ Conductor temperature)						
mm^2	Ω/km	Ω/km	Ω/km	100%	95%	90%	85%	80%	75%	70%
10	1.840	2.346	2.346	1.00	0.97	0.93	0.89	0.84	0.80	0.75
16	1.160	1.479	1.479	1.00	0.98	0.95	0.91	0.87	0.82	0.78
25	0.734	0.936	0.936	1.00	1.00	0.97	0.94	0.90	0.86	0.82
35	0.529	0.675	0.675	1.00	1.02	1.00	0.97	0.93	0.90	0.86
50	0.391	0.499	0.499	1.00	1.04	1.02	1.00	0.97	0.94	0.90
70	0.270	0.344	0.344	1.00	1.07	1.07	1.06	1.04	1.01	0.98
95	0.195	0.249	0.251	1.00	1.11	1.12	1.12	1.11	1.09	1.07
120	0.154	0.196	0.198	1.00	1.15	1.17	1.18	1.18	1.17	1.15
150	0.126	0.161	0.164	1.00	1.18	1.23	1.25	1.25	1.25	1.24
185	0.100	0.128	0.131	1.00	1.23	1.30	1.33	1.35	1.35	1.35
240	0.0762	0.0972	0.1010	1.00	1.31	1.40	1.46	1.49	1.51	1.53

6/10kV RFOU, 6/10kV RFCU, 6/10kV RFBU

Nominal Area	R-dc (at 20℃)	R-dc (at 90℃)	R-ac (at 90℃)	Inductive voltage drop coefficient						
				Dielectric power factor (at 60HZ & 90℃ Conductor temperature)						
mm^2	Ω/km	Ω/km	Ω/km	100%	95%	90%	85%	80%	75%	70%
16	1.160	1.479	1.479	1.00	0.99	0.95	0.91	0.87	0.83	0.78
25	0.734	0.936	0.936	1.00	1.00	0.97	0.94	0.90	0.86	0.82
35	0.529	0.675	0.675	1.00	1.02	1.00	0.97	0.94	0.90	0.86
50	0.391	0.499	0.499	1.00	1.04	1.03	1.01	0.98	0.95	0.91
70	0.270	0.344	0.344	1.00	1.08	1.08	1.06	1.04	1.02	0.99
95	0.195	0.249	0.251	1.00	1.12	1.13	1.13	1.12	1.10	1.08
120	0.154	0.196	0.198	1.00	1.16	1.19	1.20	1.19	1.19	1.17
150	0.126	0.161	0.164	1.00	1.19	1.24	1.26	1.27	1.26	1.25
185	0.100	0.128	0.131	1.00	1.25	1.31	1.35	1.37	1.38	1.38
240	0.0762	0.0972	0.1010	1.00	1.32	1.42	1.48	1.52	1.54	1.55

8.7/15kV RFOU, 8.7/15kV RFCU, 8.7/15kV RFBU

Nominal Area	R-dc (at 20℃)	R-dc (at 90℃)	R-ac (at 90℃)	Inductive voltage drop coefficient						
				Dielectric power factor (at 60HZ & 90℃ Conductor temperature)						
mm^2	Ω/km	Ω/km	Ω/km	100%	95%	90%	85%	80%	75%	70%
25	0.734	0.936	0.936	1.00	1.01	0.98	0.94	0.91	0.87	0.83
35	0.529	0.675	0.675	1.00	1.02	1.00	0.97	0.94	0.91	0.87
50	0.391	0.499	0.499	1.00	1.05	1.03	1.01	0.98	0.95	0.92
70	0.270	0.344	0.344	1.00	1.08	1.08	1.07	1.05	1.03	1.00
95	0.195	0.249	0.251	1.00	1.12	1.14	1.14	1.13	1.12	1.10
120	0.154	0.196	0.198	1.00	1.17	1.20	1.21	1.21	1.21	1.19
150	0.126	0.161	0.164	1.00	1.20	1.25	1.28	1.29	1.29	1.28
185	0.100	0.128	0.131	1.00	1.26	1.33	1.37	1.39	1.40	1.40
240	0.0762	0.0972	0.1010	1.00	1.34	1.44	1.50	1.54	1.57	1.58

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ELECTRICAL DATA

0.6/1kV(1.8/3kV) RFOU(VFD), 1.8/3kV RFOU(VFD)

No. of Cores	Nominal Area	R-dc (at 20℃)	R-dc (at 90℃)	R-ac (at 90℃)	Inductive voltage drop coefficient						
					Dielectric power factor (at 60Hz & 90℃ Conductor temperature)						
No.	mm^2	ohm/km	ohm/km	ohm/km	100%	95%	90%	85%	80%	75%	70%
3C	25	0.734	0.936	0.936	1.00	0.99	0.95	0.91	0.87	0.83	0.79
3E	6	3.110	3.966	3.966							
3C	35	0.529	0.675	0.675	1.00	1.00	0.97	0.93	0.90	0.86	0.81
3E	6	3.110	3.966	3.966							
3C	50	0.391	0.499	0.499	1.00	1.01	0.99	0.96	0.92	0.89	0.85
3E	10	1.840	2.346	2.346							
3C	70	0.270	0.344	0.344	1.00	1.04	1.02	1.00	0.97	0.94	0.90
3E	16	1.160	1.479	1.479							
3C	95	0.195	0.249	0.251	1.00	1.07	1.07	1.05	1.03	1.00	0.97
3E	16	1.160	1.479	1.479							
3C	120	0.154	0.196	0.198	1.00	1.10	1.11	1.10	1.08	1.06	1.04
3E	25	0.734	0.936	0.936							
3C	150	0.126	0.161	0.164	1.00	1.13	1.15	1.15	1.14	1.12	1.10
3E	25	0.734	0.936	0.936							
3C	185	0.100	0.128	0.131	1.00	1.16	1.20	1.21	1.21	1.20	1.19
3E	35	0.529	0.675	0.675							
3C	240	0.076	0.097	0.101	1.00	1.22	1.28	1.31	1.32	1.33	1.32
3E	50	0.391	0.499	0.499							

0.6/1kV(1.8/3kV) BFOU(VFD), 1.8/3kV BFOU(VFD)

3C	25	0.734	0.936	0.936	1.00	0.99	0.95	0.91	0.87	0.83	0.79
3E	6	3.110	3.966	3.966							
3C	35	0.529	0.675	0.675	1.00	1.00	0.97	0.94	0.90	0.86	0.82
3E	6	3.110	3.966	3.966							
3C	50	0.391	0.499	0.499	1.00	1.02	0.99	0.96	0.93	0.89	0.85
3E	10	1.840	2.346	2.346							
3C	70	0.270	0.344	0.344	1.00	1.04	1.03	1.00	0.98	0.94	0.91
3E	16	1.160	1.479	1.479							
3C	95	0.195	0.249	0.251	1.00	1.07	1.07	1.06	1.04	1.01	0.98
3E	16	1.160	1.479	1.479							
3C	120	0.154	0.196	0.198	1.00	1.10	1.11	1.11	1.09	1.07	1.05
3E	25	0.734	0.936	0.936							
3C	150	0.126	0.161	0.164	1.00	1.13	1.15	1.15	1.15	1.13	1.11
3E	25	0.734	0.936	0.936							
3C	185	0.100	0.128	0.131	1.00	1.17	1.21	1.22	1.22	1.21	1.20
3E	35	0.529	0.675	0.675							
3C	240	0.076	0.097	0.101	1.00	1.23	1.29	1.32	1.33	1.34	1.33
3E	50	0.391	0.499	0.499							

0.6/1kV(1.8/3kV) FX-RFOU(VFD), 1.8/3kV FX-RFOU(VFD)

3C	25	0.795	1.014	1.014	1.00	0.98	0.95	0.91	0.86	0.82	0.78
3E	6	3.390	4.323	4.323							
3C	35	0.565	0.720	0.720	1.00	1.00	0.96	0.93	0.89	0.85	0.80
3E	6	3.390	4.323	4.323							
3C	50	0.393	0.501	0.501	1.00	1.01	0.99	0.95	0.92	0.88	0.84
3E	10	1.950	2.486	2.486							
3C	70	0.277	0.353	0.353	1.00	1.03	1.02	0.99	0.96	0.93	0.89
3E	16	1.240	1.581	1.581							
3C	95	0.210	0.268	0.270	1.00	1.06	1.05	1.03	1.01	0.98	0.95
3E	16	1.240	1.581	1.581							
3C	120	0.164	0.209	0.211	1.00	1.09	1.09	1.08	1.06	1.04	1.01
3E	25	0.795	1.014	1.014							
3C	150	0.132	0.168	0.172	1.00	1.11	1.13	1.13	1.12	1.10	1.08
3E	25	0.795	1.014	1.014							
3C	185	0.108	0.138	0.142	1.00	1.15	1.17	1.18	1.17	1.16	1.15
3E	35	0.565	0.720	0.720							
3C	240	0.082	0.104	0.108	1.00	1.20	1.25	1.27	1.28	1.28	1.27
3E	50	0.393	0.501	0.501							

Technical Information

ELECTRICAL DATA

0.6/1kV(1.8/3kV) FX-BFOU(VFD), 1.8/3kV FX-BFOU(VFD)

No. of Cores	Nominal Area	R-dc (at 20℃)	R-dc (at 90℃)	R-ac (at 90℃)	Inductive voltage drop coefficient						
					Dielectric power factor (at 60Hz & 90℃ Conductor temperature)						
No.	mm^2	ohm/km	ohm/km	ohm/km	100%	95%	90%	85%	80%	75%	70%
3C	25	0.795	1.014	1.014	1.00	0.98	0.95	0.91	0.87	0.82	0.78
3E	6	3.390	4.323	4.323							
3C	35	0.565	0.720	0.720	1.00	1.00	0.96	0.93	0.89	0.85	0.81
3E	6	3.390	4.323	4.323							
3C	50	0.393	0.501	0.501	1.00	1.01	0.99	0.96	0.92	0.88	0.85
3E	10	1.950	2.486	2.486							
3C	70	0.277	0.353	0.353	1.00	1.04	1.02	1.00	0.97	0.93	0.90
3E	16	1.240	1.581	1.581							
3C	95	0.210	0.268	0.270	1.00	1.06	1.06	1.04	1.01	0.99	0.95
3E	16	1.240	1.581	1.581							
3C	120	0.164	0.209	0.211	1.00	1.09	1.09	1.08	1.07	1.04	1.02
3E	25	0.795	1.014	1.014							
3C	150	0.132	0.168	0.172	1.00	1.12	1.13	1.13	1.12	1.10	1.08
3E	25	0.795	1.014	1.014							
3C	185	0.108	0.138	0.142	1.00	1.15	1.18	1.18	1.18	1.17	1.15
3E	35	0.565	0.720	0.720							
3C	240	0.082	0.104	0.108	1.00	1.20	1.25	1.28	1.29	1.29	1.28
3E	50	0.393	0.501	0.501							

0.6/1kV RFOU, 0.6/1kV RFCU, 0.6/1kV RFBU

Nominal Area	R-dc (at 20℃)	R-dc (at 90℃)	R-ac (at 90℃)	Inductive voltage drop coefficient						
				Dielectric power factor (at 60Hz & 90℃ Conductor temperature)						
mm^2	ohm/km	ohm/km	ohm/km	100%	95%	90%	85%	80%	75%	70%
1.5	12.2	15.6	15.6	1.00	0.95	0.91	0.86	0.81	0.76	0.71
2.5	7.56	9.64	9.64	1.00	0.96	0.91	0.86	0.81	0.76	0.71
4	4.70	5.99	5.99	1.00	0.96	0.91	0.87	0.82	0.77	0.72
6	3.11	3.97	3.97	1.00	0.96	0.92	0.87	0.83	0.78	0.73
10	1.84	2.35	2.35	1.00	0.97	0.93	0.88	0.84	0.79	0.75
16	1.16	1.48	1.48	1.00	0.98	0.94	0.90	0.86	0.81	0.77
25	0734	0.936	0.936	1.00	1.00	0.96	0.93	0.89	0.85	0.80
35	0.529	0.675	0.675	1.00	1.01	0.98	0.95	0.91	0.88	0.84
50	0.391	0.499	0.499	1.00	1.03	1.01	0.98	0.95	0.92	0.88
70	0.270	0.344	0.344	1.00	1.06	1.05	1.03	1.01	0.98	0.95
95	0.195	0.249	0.251	1.00	1.09	1.10	1.09	1.08	1.05	1.03
120	0.154	0.196	0.198	1.00	1.13	1.15	1.15	1.14	1.12	1.10
150	0.126	0.161	0.164	1.00	1.16	1.19	1.20	1.20	1.20	1.18
185	0.100	0.128	0.131	1.00	1.21	1.26	1.29	1.30	1.30	1.29
240	0.0762	0.0972	0.1010	1.00	1.28	1.36	1.41	1.43	1.45	1.45
300	0.0607	0.0774	0.0820	1.00	1.36	1.47	1.54	1.59	1.62	1.64

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0.6/1kV BFOU, 0.6/1kV BFCU, 0.6/1kV BFBU

Nominal Area	R-dc (at 20℃)	R-dc (at 90℃)	R-ac (at 90℃)	Inductive voltage drop coefficient						
				Dielectric power factor (at 60Hz & 90℃ Conductor temperature)						
mm²	ohm/km	ohm/km	ohm/km	100%	95%	90%	85%	80%	75%	70%
1.5	12.2	15.6	15.6	1.00	0.95	0.91	0.86	0.81	0.76	0.71
2.5	7.56	9.64	9.64	1.00	0.96	0.91	0.86	0.81	0.76	0.71
4	4.70	5.99	5.99	1.00	0.96	0.91	0.87	0.82	0.77	0.72
6	3.11	3.97	3.97	1.00	0.96	0.92	0.87	0.83	0.78	0.73
10	1.84	2.35	2.35	1.00	0.97	0.93	0.89	0.84	0.79	0.75
16	1.16	1.48	1.48	1.00	0.98	0.94	0.90	0.86	0.82	0.77
25	0.734	0.936	0.936	1.00	1.00	0.96	0.93	0.89	0.85	0.81
35	0.529	0.675	0.675	1.00	1.01	0.98	0.95	0.92	0.88	0.84
50	0.391	0.499	0.499	1.00	1.03	1.01	0.98	0.95	0.92	0.88
70	0.270	0.344	0.344	1.00	1.06	1.05	1.03	1.01	0.98	0.95
95	0.195	0.249	0.251	1.00	1.10	1.10	1.10	1.08	1.06	1.03
120	0.154	0.196	0.198	1.00	1.13	1.15	1.15	1.14	1.13	1.11
150	0.126	0.161	0.164	1.00	1.16	1.20	1.21	1.21	1.20	1.19
185	0.100	0.128	0.131	1.00	1.21	1.26	1.29	1.30	1.30	1.30
240	0.0762	0.0972	0.1010	1.00	1.28	1.36	1.41	1.44	1.45	1.46
300	0.0607	0.0774	0.0820	1.00	1.36	1.48	1.55	1.59	1.62	1.64

0.6/1kV RU

Nominal Area	R-dc (at 20℃)	R-dc (at 90℃)	R-ac (at 90℃)	Inductive voltage drop coefficient						
				Dielectric power factor (at 60Hz & 90℃ Conductor temperature)						
mm²	ohm/km	ohm/km	ohm/km	100%	95%	90%	85%	80%	75%	70%
1.5	12.2	15.6	15.6	1.00	0.95	0.90	0.86	0.81	0.76	0.71
2.5	7.56	9.64	9.64	1.00	0.96	0.91	0.86	0.81	0.76	0.71
4	4.70	5.99	5.99	1.00	0.96	0.91	0.86	0.81	0.77	0.72
6	3.11	3.97	3.97	1.00	0.96	0.92	0.87	0.82	0.77	0.72
10	1.84	2.35	2.35	1.00	0.97	0.92	0.88	0.83	0.79	0.74
16	1.16	1.48	1.48	1.00	0.98	0.94	0.89	0.85	0.80	0.76
25	0734	0.936	0.936	1.00	0.99	0.95	0.91	0.87	0.83	0.79
35	0.529	0.675	0.675	1.00	1.00	0.97	0.94	0.90	0.86	0.82
50	0.391	0.499	0.499	1.00	1.02	1.00	0.96	0.93	0.89	0.86
70	0.270	0.344	0.344	1.00	1.04	1.03	1.01	0.98	0.95	0.91
95	0.195	0.249	0.251	1.00	1.08	1.08	1.06	1.04	1.02	0.99
120	0.154	0.196	0.198	1.00	1.11	1.12	1.11	1.10	1.08	1.06
150	0.126	0.161	0.164	1.00	1.14	1.16	1.17	1.16	1.15	1.13
185	0.100	0.128	0.131	1.00	1.19	1.23	1.25	1.25	1.25	1.24
240	0.0762	0.0972	0.1010	1.00	1.25	1.32	1.36	1.38	1.39	1.39
300	0.0607	0.0774	0.0820	1.00	1.32	1.42	1.48	1.51	1.54	1.55

0.6/1kV BU

Nominal Area	R-dc (at 20℃)	R-dc (at 90℃)	R-ac (at 90℃)	Inductive voltage drop coefficient						
				Dielectric power factor (at 60Hz & 90℃ Conductor temperature)						
mm²	ohm/km	ohm/km	ohm/km	100%	95%	90%	85%	80%	75%	70%
1.5	12.2	15.6	15.6	1.00	0.95	0.90	0.86	0.81	0.76	0.71
2.5	7.56	9.64	9.64	1.00	0.96	0.91	0.86	0.81	0.76	0.71
4	4.70	5.99	5.99	1.00	0.96	0.91	0.86	0.82	0.77	0.72
6	3.11	3.97	3.97	1.00	0.96	0.92	0.87	0.82	0.77	0.73
10	1.84	2.35	2.35	1.00	0.97	0.92	0.88	0.83	0.79	0.74
16	1.16	1.48	1.48	1.00	0.98	0.94	0.89	0.85	0.80	0.76
25	0.734	0.936	0.936	1.00	0.99	0.96	0.92	0.88	0.83	0.79
35	0.529	0.675	0.675	1.00	1.00	0.97	0.94	0.90	0.86	0.82
50	0.391	0.499	0.499	1.00	1.02	1.00	0.97	0.93	0.90	0.86
70	0.270	0344	0.344	1.00	1.05	1.03	1.01	0.99	0.95	0.92
95	0.195	0.249	0.251	1.00	1.08	1.08	1.07	1.05	1.02	1.00
120	0.154	0.196	0.198	1.00	1.11	1.12	1.12	1.11	1.09	1.07
50	0.126	0.161	0.164	1.00	1.14	1.17	1.18	1.17	1.16	1.14
185	0.100	0.128	0.131	1.00	1.19	1.23	1.25	1.26	1.25	1.24
240	0.0762	0.0972	0.1010	1.00	1.25	1.32	1.36	1.38	1.39	1.40
300	0.0607	0.0774	0.0820	1.00	1.32	1.42	1.48	1.52	1.54	1.55

Technical Information

VOLTAGE RATING SELECTION

Selection cable for A.C systems

Supply system	Supply category	System voltage (kV)					Recommended (kV)	
		Phase to earth (Uo)		Phase to phase (U)		Maximum sustained voltage (Um)	IEC standard	BS standards
		Above	Up to and including	Above	Up to and including		U_o / U	U_o / U
3-Phase 4-Wire	A & B	-	0.15	-	0.25	0.28	0.15 / 0.25	0.15 / 0.25
		0.15	0.6	0.25	1	1.2	0.6 / 1	0.6 / 1
3-Phase 4-Wire	C	-	-	-	0.15	-	0.15 / 0.25	0.15 / 0.25
		-	-	0.15	0.6	-	0.6 / 1	0.6 / 1
3-Phase 3-Wire	A & B	-	0.15	-	0.25	0.28	0.15 / 0.25	0.15 / 0.25
		0.15	0.6	0.25	1	1.2	0.6 / 1	0.6 / 1
		0.6	1.9	-	3.3	3.6	1.8 / 3	1.9 / 3.3
		1.9	3.8	3.3	6.6	7.2	3.6 / 6	3.8 / 6.6
		3.8	6.35	6.6	11	12	6 / 10	6.35 / 11
		6.35	8.7	11	15	17	8.7 / 15	-
		8.7	12.7	15	22	24	12 / 20	12.7 / 22
3-Phase 3-Wire	C	-	-	-	0.15	-	0.15 / 0.25	0.15 / 0.25
		-	-	0.15	0.6	-	0.6 / 1	0.6 / 1
		-	-	0.6	1.9	-	1.8 / 3	1.9 / 3.3
		-	-	1.9	3.3	3.6	3.6 / 6	3.8 / 6.6
		-	-	3.3	6.6	7.2	6 / 10	6.35 / 11
		-	-	6.6	11	12	8.7 / 15	11 / 11
		-	-	11	15	17.5	12 / 20	12.7 / 22
2-Phase 3-Wire or 2-Phase 4-Wire	A & B	-	0.15	-	0.21	-	0.15 / 0.25	0.15 / 0.25
		0.15	0.6	-	0.84	-	0.6 / 1	0.6 / 1
2-Phase 3-Wire or 2-Phase 4-Wire	C	-	-	-	0.15	-	0.15 / 0.25	0.15 / 0.25
		-	-	0.15	0.a6	-	0.6 / 1	0.6 / 1
		-	-	0.6	1.9	-	1.8 / 3	1.9 / 3.3
1-Phase 3-Wire	A & B	-	0.15	-	0.25	0.28	0.15 / 0.25	0.15 / 0.25
		0.15	0.6	0.25	1	1.2	0.6 / 1	0.6 / 1
1-Phase 3-Wire	C	-	-	-	0.15	-	0.15 /0.25	0.15 / 0.25
		-	-	0.25	0.6	-	0.6 / 1	0.6 / 1
1-Phase 2-Wire or 1-Phase 1-Wire	C	-	-	-	0.15	-	0.15 /0.25	0.15 / 0.25
		-	-	0.15	0.6	-	0.6 / 1	0.6 / 1
		-	-	0.6	1.9	-	1.8 / 3	19. / 3.3
		-	-	1.9	3.3	3.6	3.6 / 6	3.8 / 6.6
		-	-	3.3	6.6	7.2	6 / 10	6.35 / 11
		-	-	6.6	11	12	8.7 / 15	-
		-	-	11	15	17.5	12 / 20	12.7 / 22

Note) The rated voltage of the cable for a given application shall be suitable for the operating condition in the system in which the cable is used. To facilitate the choice of the cable, the system are divided into the following three categories

Category A : This category comprises those systems in which any phase conductor than comes in contact with earth or an earth conductor , is automatically disconnected from the system within 1 minute.

Category B : This category comprises those systems in which, under fault conditions, are operated for a short time, not exceeding 8 hours on any occasion, faults in any year should not exceed 125 hours.

Category C : This category comprises all systems which do not fall into categories A and B.

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

TEST METHODS & TEST EQUIPMENT

1. Flame retardant test

IEC 60332-3. CAT. A (VTFT)

2. Fire resistant test

IEC 60331 (at 750℃, 830℃)

3. Cold test (Bending / Impact)

CSA C22.2 No.03 (-40℃/ -35℃)

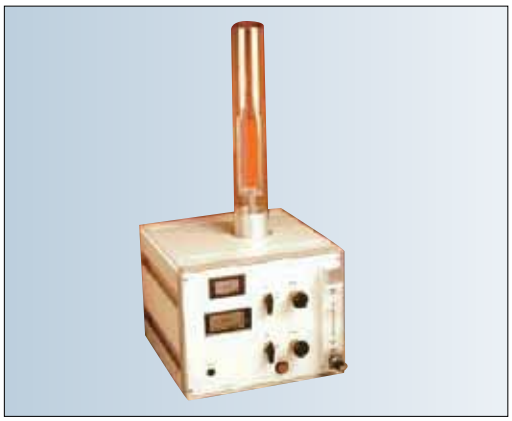
4. Halogen content test

IEC 60754-1,2 Test

5. Smoke emission test

IEC 61034-1,2 Test

6. Oxygen index test



ASTM D 2863

Technical Information

7. Mud resistant test

Mud resistant cables shall be designed with sheathing compounds suitable for installation and operation in contact with MUD unless otherwise specified. Type SHF Mud.

The variation in the tensile strength and elongation at break values from those values obtained on the unaged sample shell not exceed 25%.
The volume swell and weight increase shell not exceed 20%and 15% respectively.

1) IRM 903 requirements

The variation in the tensile strength and elongation at break values from those values obtained on the unaged sample shell not exceed 30%.

2) “Drilling fluid” mud test requirements for sheathing compound SHF mud

Test shall be carried out on dumbbells as specified in IEC 60092-360 Table 6 except that the test fluids and conditions shall be as given in Table 1.

Tesa fluid	Temperature	Duration
Mineral oil type-IRM 903	100℃	7d
Calcium Bromide Brine (Water based)	70℃	56d
Carbo Sea (oil based)	70℃	56d

8. Oil resistance

All thermoset sheathed cables shall be suitable for an oil production installation.
The oil resistance properties shall be demonstrated by a test according to IEC 60092-360 Table 6, type SHF2.

O-Route®
NEK-606, IEC 60092-350, 353, 354, 376

INSTALLATION RECOMMENDATIONS

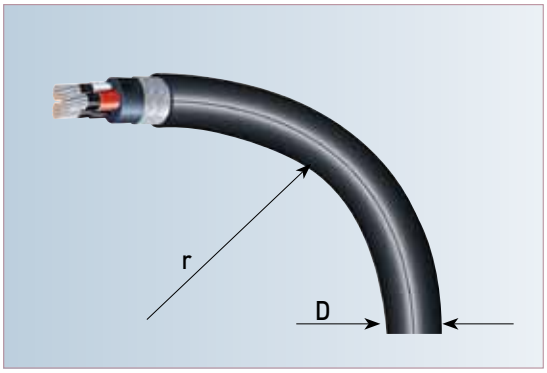
The following installation recommendations are in accordance with IEC regulation and practice.
Different regulations may apply in other countries.

1. Minimum cable bending radius

The bending radius for the installation of cables should be not less than the values given as follows;

Type of cable		Minimum bending radius
Up to 1.8/3kV	Unarmored or unbraided	
	D ≤ 25mm	4 X D
	D > 25mm	6 X D
	Metal braid screened or armored	6 X D
	Tape screened	8 X D
3.6/6kV above	Single core	12 X D
	3-core	9 X D

Note) For cables rated at 3.6/6(7.2)kV and above employing flexible conductor stranding(Class5) and braid insulation shields indicating a minimum bend radius of 6D for unarmoured cables and 8D for armoured cables in concurrence with the approval of the cable manufacturer.



Notes) D : Overall diameter of cable

2. Installation temperature

Minimum recommended installation temperature for cables shall be -20℃.
But, if the ambient temperature were below -20℃, the cable should be installed after maintained at room temperature (about 15~25℃) for 24 hours or more.

Technical Information

3. Explosion risk areas

1) Areas

The areas on board are usually classified in two main categories with regards to the explosion risk :

- ▶ Hazardous areas : Areas in which explosive gas-air mixtures are, or may be expected to be,present in quantities such as to require special precautions for the construction and use of electrical apparatus.
- ▶ Safe areas(non-hazardous areas) : Area in which explosive gas-air mixtures are not expected to be, present in quantities such as to required special precautions for the construction and use of electrical apparatus.

A hazardous area is divided into three zones :

- ▶ Zone 0 : in which an explosive gas-air mixture is continuously present or present for long periods.
- ▶ Zone 1 : in which an explosive gas-air mixture is likely to occur in normal operation
- ▶ Zone 2 : in which an explosive gas-air mixture is not likely to occur, and if occurs it will only exist for a short time

2) Installation of cables

- ▶ For cables to be used in zone 0 and zone 1, one of the following types of protection is required:
  - · A non-metallic outer sheath in combination with braiding or other metallic covering for earth fault detection and mechanical protection. A non-metallic outer sheath is, however, not required if the screen or armouring consists of a corrosion resistant bronze alloy.
  - · A lead sheathing in addition to further mechanical protection, for example armour braiding or non-metallic impervious sheath.
  - · For mineral insulated cables, a copper or stainless steel sheath.
  - · Single core cables in installations with A.C or D.C. current with a high ripple content should be of types without screen of armouring. where mechanical damage is possible, such cables should otherwise be mechanically protected or installed in ducts or similar.
- ▶ For installations in zone 2, cables without screen or armour can be used.

4. Earthing of metal coverings of cables

1) General requirements

All metal coverings of cables, armouring or shielding shall be earthed. Earthing must be provided at both ends except for final sub-circuits where earthing at only one end(the supply end)is sufficient.
Earthing at one end is permitted where it is required for technical or safety reasons, control and instrumentation cables, mineral insulated cables, intrinsically safe circuits, control circuits etc.

Metal covering of single core cable for AC and single core cable for DC with ripple content exceeding 10% and having a current rating exceeding 20A is to be earthed at one and only.
when single core cables for AC and DC with ripple content higher than 10% are installed in or passing through hazardous areas, the metal screen or armour is to be earthed inside the hazardous area to avoid dangerous potential between screen armour and earthed part of the installation

2) Cross section of earth connections

Earth connections for metal coverings shall be carried out with conductors having cross sectional areas related to the cross sectional areas of the phase conductors and the current ratings of the cables, or at least the same cross sectional areas as the metal covering it self.

3) Earthing through metal clamps etc.

Metal coverings of cables may be earthed through clamps. The clamps must grip the metal covering of the cable and must be connected to the hull and provide a good conductive connection between the metal covering and the hull. The metal clamps must be corrosion resistant.

4) Earthing through cable glands

The metal coverings of cables may be earthed by means of glands intended for the purpose and so designed as to ensure an effective earth connection. The glands shall be firmly attached to, and in effective electrical contact with, a metal structure earthed in accordance with these regulations.

5) Earthing of metal pipes, conduits etc.

Metal pipes and cable conduits are to be earthed. Pipes and conduits may be earthed by being screwed into a metal enclosure, or by nuts in both sides of the wall of metallic enclosure, provided that the surface is clean and free from rust, scale or print.
Comments : For intrinsically safe circuits it is important to separate the earth conductor from the protective earthing. The resistance between a zener barrier earth and protective earth must be max.
1ohm and preferably less than. 0.1ohm to avoid that possible fault current does not lead to a potential increase in the system.

Technical Information

5. Fixing of cables

Cables are to be suitably fixed to the supports. In order to guard against the effects of electrodynamics forces developing on the occurrence of a short circuit, single core cables should be firmly fixed by using supports of a strength adequate to withstand forces corresponding to the values of prospective short circuit current.
The requirement concerning fixing can normally be fulfilled when the cables are clamped as follows:

- For cables entering enclosures and conduits the nearest clamp is to be placed at a minimum distance from the entry of 10 times the diameter the cable concerned from the entry.
- At other points the distance between the clamps must not exceed the in the following table:

External diameter of cable (mm)		Spacing of fixing points (mm)	
Above	Up to	Cables without Metal braid or armor	Cables with copper, bronze or steel braid or armor
-	8	200	250
8	13	250	300
12	20	300	350
20	30	350	400
30	-	400	450

6. Mechanical protection of cables

Cables are to be installed in such a way that they are not subject to damaging mechanical stressed.
where this can not be obtained the cables are to be protected. Unless the cable itself(for example armour or sheath) provides adequate protection the cables should be:

- Enclosed in suitable conduits or casings
- covered by steel pipes or profiles
- Steel pipes in which the cables are run

in areas where there is an exceptional risk of mechanical damage, for example in cargo hold area or different storage areas, the cables always have to be protected, even when the cables are armoured.
The thickness of the protective conduits must be at least 4mm.
The wall thickness of the protective conduit must be at least 2mm.
Cables lay on aluminum supports may have a corresponding protection of aluminum.
the thickness must be at least 4mm.
Metal casing used for mechanical protection of cables should be efficiently protected against corrosion.

7. Installation of cables for fire properties

Cables must at least meet the flame retardant requirements. On board passenger ships, cargo-ships and mobile offshore units, where requirements are considered to be satisfied if the cables have characteristics complying withe the cable bunch test IEC-Publication 60332-3, or fire stops are installed in accordance with the following recommendations:When cable complying with single-cable test, but not the cable-bunch-test, are installed, fire stops are to be provided in enclosed or semi-enclosed spaces except for cargo rooms and tunnels in cargo areas.

a) For vertical cable runs
- with a max. distance between fire stops of two decks or 6 meters, unless installed in totally enclosed cable ducts
- at the main and emergency switchboard
- where cables enter into an engine control room
- at centralized control panels for propulsion machinery and essential auxiliaries
- at the entrance to cables ducts

b) For horizontal cable runs.
- Fire stops shall be as specified in item a) above but the maximum. distance between fire stops may be increased to 14m.

When choosing cable types special attention should be paid to reduce possible damage due to corrosion in case of a fire.
Non-halogen free cables(materials)will give off corrosive gases during a fire.
The corrosion effect depends on the amount of halogens in the materials used.
Flame retardant cables are to give characteristics complying with the test requirements in IEC-Publication 60332-1, with amendments.
Fire resistant cables are to give characteristics complying with the requirements in IEC-Publication 60331.

8. Intrinsically safe installations

Cables and flexible cables for intrinsically safe circuits must have screen or similar of a conducting material and the outer sheath must be of an insulating material. A non-metallic outer sheath is, however, not required if the screen or armour consists of a corrosion resistant bronze alloy. Where there is no danger of interference from the external electrical or magnetic fields, short flexible cables may be used without screen.

a) Associated equipment
Associated equipment(e.g.power supply units) shall be situated in a safe area or has protection as mentioned in "Explosion risk areas."

b) Connection of equipment
Within limitations laid down in 3., ordinary non-explosion protected equipment may be connected to intrinsically safe equipment, provided that it is designed to meet regulations in other respects.

c) Compliance with any limitations in the certificate
With intrinsically safe circuits special considerations must be given to ensure that the circuits characteristics (including connected equipment, cables, conductors etc.) satisfy any limitations in the test certificate.
Such limitations may be maximum values for capacitance and inductance etc. It is pointed out there is a danger of damage to i.s equipment when using normal equipment for insulation testing

d) Adjacent location
Conductors for i.s safe circuits and conductors for non-i.s safe circuits shall not be run together in the same cable, flexible cable, conduit, cables bunch etc.

e) Protection against electrical and magnetic fields
Where i.s circuits are exposed to magnetic or electrical field that may destroy the intrinsic safety of the system.
Precautions must be taken during installation. Such precautions may be:
- cables for i.s circuits and non-i.s circuits to be installed a minimum distance of 50mm apart.
  The minimum distance to heavy current cables using D.C with a high ripple content should be 300mm.
- cables for i.s circuits and non-i.s circuits to be separated panel of conducting material which is earthed.
- cables for i.s circuits to have effective transposition.

f) Marking
The marking may be a marking plate or by colour marking of the cables when using colour marking, the colour should be light blue.

Technical Information

CORE IDENTIFICATION

1. High voltage power cables

The individual cores shall be identified by the colored semi-conducting tape or colored ribbon tape run longitudinally on the non-metallic part of insulation screening and the colour scheme shall be as follows:

1 core : Off-white (Grey)
3 core : Off-white (Grey), Black, Red, or Off-white(Grey), Red, Blue

2. Low voltage power and control cables

The insulated cores shall be identified by the color of insulation or by the number printed on insulated cores; as follows

1) NEK-606 standard

1core : Off-white(Grey) or Black
2core : Off-white, Black
3core : Off-white, Black, Red
4core : Off-white, Black, Red, Blue or Black, Off-white, Red, Green.
5core and above core: white number on black insulation or black number on white insulation
Earth core : Green/Yellow (green base with yellow stripe)

2) CENELEC harmonization document HD 308 S2

2C	-	-			
3C	Green / Yellow	Blue	Brown		
4C	Green / Yellow	-	Brown	Black	Grey
5C	Green / Yellow	Blue	Brown	Black	Grey

2C	Blue	Brown			
3C	-	Brown	Black	Grey	
4C	Blue	Brown	Black	Grey	
5C	Blue	Brown	Black	Grey	Black

3. Instrumentation and communication cables

Each pair/triad shall be identified as follows.

- Pairs : Black, Light blue or Black, White
- Triads : Black, Light blue, Brown or Black, White, Red

For identification of multi-pair/triad cables, pair/triad are identified by lapping of the numbered tape or by the number print directly on the each cores, and the number interval shall be 100mm or less.

The other color scheme may be applicable when purchaser required.

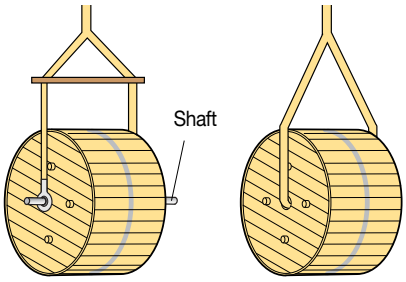
Handling, Installation Method & Notice

O-Route®
NEK-606, IEC 60092-350, 353, 354, 376

■ Loading & Transportation

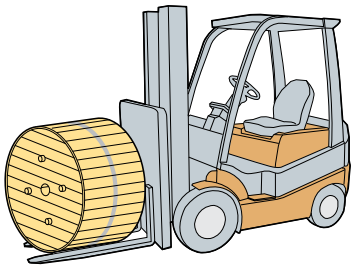
1. In case of a crane
Should transport by using standard rope and a shaft which is put in the center of drum.

* Matters that requires attention
  - Placing it even with the ground.
  - Should move slowly and when it placedown, don't do sudden stop.



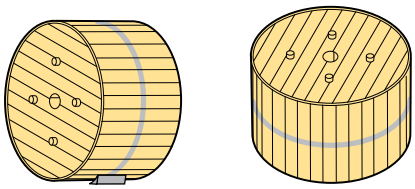
2. In case of a forklift
Drums should not be damaged by a forklift.

* Matters that requires attention:
  - Place the drum on the center of a fork.
  - The width of a fork should be longer than drum size.



■ Transportation and Unloading

∗ Matters that requires attention while handling cables.
- Don't lie drums down.
- Don't move it 20m longer when rolling it.
- Don't use gimlets or something like sharp when moving.
- Don't roll a damaged drum.
- Don't roll at projecting surface.
- Don't store drum near to stove and heater.



Check point while handling cables(Storage)

■ Storage

- Don't leave the protecting packing materials and outside package until remove it for setting up cables.
- Should construct a fence to protect against damages by moving machines.
- Keep it inside or in depository when safekeeping in long term.
  (For reference, drums and packages can stand against dry whether outside the house)
- Must seal both sides of cables remaining in the drums the cap and heat-contracting tube so that moisture doesn't soak in after finishing the removal of exterior packing materials and cutting and installing cables.

Certificates Approved

CERTIFICATE OF APPROVAL

This is to certify that the Quality Management System of:

TMC Co., Ltd.
443, Yeongok-gil, Ipjang-myeon, Seobuk-gu
Cheonan-si, Chongnam, Korea

has been approved by Lloyd's Register Quality Assurance to the following Quality Management System Standards:

ISO 9001:2008
KS Q ISO 9001:2009

The Quality Management System is applicable to:

Design and manufacture of shipboard cables, offshore cables, electrical cables and fiber optic cables.

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

Approval Certificate No: SEO 0981026

Original Approval: 2 December 1998
Current Certificate: 1 January 2014
Certificate Expiry: 31 December 2016

Issued by: LRQA Korea Ltd. for and on behalf of Lloyd's Register Quality Assurance Limited

Cert. of ISO 9001

CERTIFICATE OF APPROVAL

This is to certify that the Environmental Management System of:

TMC Co., Ltd.
368-7, Gasan-ri, Ibjang-myeon, Cheonan-si
Chungnam, 330-821, Korea

has been approved by Lloyd's Register Quality Assurance to the following Environmental Management System Standard:

ISO 14001:2004
KS I ISO 14001:2009

The Environmental Management System is applicable to:

Design and manufacture of shipboard cables, offshore cables, electrical cables and fiber optic cables.

Approval Certificate No: SEO 0053017

Original Approval: 1 February 2006
Current Certificate: 1 February 2012
Certificate Expiry: 31 January 2015

Issued by: LRQA Korea Ltd. for and on behalf of Lloyd's Register Quality Assurance Limited

Cert. of ISO 14001

CERTIFICATE OF APPROVAL

This is to certify that the Occupational Health & Safety Management System of:

TMC Co., Ltd.
443, Yeongok-gil, Ipjang-myeon, Seobuk-gu
Cheonan-si, Chungnam, Korea

has been approved by Lloyd's Register Quality Assurance to the following specification:

OHSAS 18001:2007

The Occupational Health & Safety Management System is applicable to:

Design and manufacture of shipboard cables, off-shore cables, electrical cables and fiber optic cables.

Approval Certificate No: SEO 6004071

Original Approval: 22 July 2008
Current Certificate: 22 July 2014
Certificate Expiry: 21 July 2017

Issued by: LRQA Korea Ltd. for and on behalf of Lloyd's Register Quality Assurance Limited

Cert. of OHSAS 18001

Class Type Approval

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376


Certificate Number: 14-BK1224258-PDA
26/AUG/2014

ABS TYPE APPROVED PRODUCT

Confirmation of Product Type Approval

Product Name: Cable, Flame Retardant, Fire Resistant, Low Smoke & Halogen-free Power, Control, Instrument & Communication Cables

Model Name(s): 0.6/1kV: RFOU, RFCU, RFBU, RU, BFOU, BFCU, BFBU, BU, 250V: RFOU(i), RFCU(i),RFBU(i), RU(i), RFOU(c), RFCU(c), RFBU(c), RU(c), RFOU(i&c),RFCU(i&c),RFBU(i&c),RU(i&c), BFOU(i), BFCU(i), BFBU(i), BU(i), BFOU(c), BFCU(c), BFBU(c), BU(c), BFOU(i&c), BFCU(i&c), BFBU(i&c), BU(i&c)

Presented to:
TMC CO., LTD.
#368-7, GASAN-RI
IPJAN-MYEON, CHEONAN CITY
CHUNGNAM
Korea, Republic of

Intended Service: Power, control, instrumentation & communication cables for electrical equipment of shipboard and offshore unit

Tier: 3

ABS


DNV·GL

TYPE APPROVAL CERTIFICATE

This is to certify:
That the Electric Power Cable

with type designation(s)
0.6/1 kV RFOU P1, RFOU P1/P8, RFCU & RFBU

Issued to
TMC Co., Ltd
CHUNGNAM, Republic of Korea

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards
IEC 60092-353 (2011-08)
IEC 60332-3-22 (2009-02)
IEC 60754-1/2 (2011-11)
IEC 61034-2 (2005-04)
NEK TS 606 (2009-05)

Application :
General power and lighting. Flame retardant Cat. A.
Low smoke and halogen free. Mud resistant. Cold bend -40°C. Cold impact -35°C.

Voltage class (kV)	0.6/1
Temp. class (°C)	90

This Certificate is valid until 2017-06-30.
Issued at Busan on 2014-07-16

DNV GL local station: Seoul

Approval Engineer: Byeung Su Lee

for DNV GL
Bang Soon Choi
Head of Section

DNV

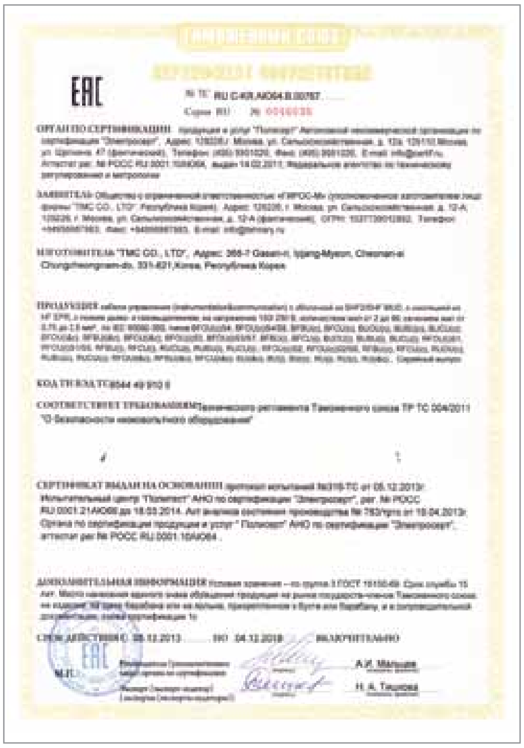

TYPE APPROVAL CERTIFICATE

TMC CO., LTD. (IPJANG PLANT)

CABLES (LOW VOLTAGE)

This certificate will expire on: 07 Oct 2015

BV


EAC

GOST-R

Memo

Memo

O-Route®

NEK-606, IEC 60092-350, 353, 354, 376

songhyun TMC

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