

Product Descriptions

Catalog Number	Description	Cable Wt.		Shipping Wt.	
		lbs/kft	kg/km	lbs/kft	kg/km
Bonded Foil Standard Construction - 60% Braid (90% Braid also available)					
F760BV	Bonded tape, 60% braid, PVC jacket	37	55	43	64
F760BVV	Bonded tape, 60% braid, PVC jacket, meets NEC Article 820 V Rating (ETL listed)	37	55	43	64
F760BVM (<i>BrightWire</i>)	Bonded tape, 60% braid, PVC jacket .072 inch messenger	57	85	64	95
F760BEF	Bonded tape, 60% braid, flooded for underground, PE jacket	31	46	37	55
F2-760BVV	Dual cable, bonded tape, 60% braid, flame retardant PVC jacket, meets NEC Article 820 V Rating (ETL listed)	75	112	89	132
F2-760BEF	Dual cable, bonded tape, 60% braid, flooded for underground, PE jacket	62	92	76	113
F2-760BVM	Dual cable, bonded tape, 60% braid, PVC jacket, .109 inch messenger	115	171	140	208
Bonded Foil Tri-Shield Construction - 60% Braid					
F7TSV	Bonded tape, 60% braid, non-bonded tape, PVC jacket	37	55	43	64
F7TSVV	Bonded tape, 60% braid, non-bonded tape, flame retardant PVC jacket, meets NEC Article 820 V Rating (ETL listed)	37	55	43	64
F7TSVM (<i>BrightWire</i>)	Bonded tape, 60% braid, non-braided tape, PVC jacket, .051 inch messenger	56	83	66	98
F7TSEF	Bonded tape, 60% braid, non-bonded tape, flooded for underground, PE jacket	35	52	41	61
F2-7TSVV	Dual cable, bonded tape, 60% braid, non-bonded tape, flame retardant PVC jacket, (ETL listed)	73	109	87	129
F2-7TSEF	Dual cable, bonded tape, 60% braid, non-bonded tape, flooded for underground, PE jacket	66	98	80	119
F2-7TSVM	Dual cable, bonded tape, 60% braid, non-bonded tape, PVC jacket, .109 inch messenger	114	170	139	207
Bonded Foil Quad-Shield Construction - 60% + 40% Braid					
F7SSV	Bonded tape, 60% braid, non-bonded tape, 40% braid, PVC jacket	50	74	57	85
F7SSVV	Bonded tape, 60% braid, non-bonded tape, 40% braid, flame retardant PVC jacket, meets NEC Article 820 V Rating (ETL listed)	50	74	57	85
F7SSVM (<i>BrightWire</i>)	Bonded tape, 40% braid, non-bonded tape, 35% braid, PVC jacket .072 inch messenger	70	104	85	126
F7SSEF	Bonded tape, 60% braid, non-bonded tape, 40% braid flooded for underground, PE jacket	42	63	49	73
F2-7SSVV	Dual cable, bonded tape, 60%, non-bonded tape, 40% braid, flame retardant PVC jacket, meets NEC Article 820 V Rating (ETL listed)	86	128	100	149
F2-7SSEF	Dual cable, 60% braid, non-bonded tape, 40% braid flooded for underground, PE jacket	72	107	86	128
F2-7SSVM	Dual cable, bonded tape, 60% braid, non-bonded tape, 40% braid, PVC jacket, .072 inch messenger	127	189	152	226

Size

Attenuation is primarily a function of cable size. Basic products are available in the two most widely used sizes, 6 and 11. 6 series cable will meet most of your needs. For longer drops, choose 11 due to the lower attenuation values. Basic products feature copper clad steel center conductor and foam polyethylene dielectric.

Attenuation (@68° F (20 C))

Frequency (MHz)	6 Series		11 Series	
	dB/100 ft	d/B/100 m	dB/100 ft	dB/100 m
55	1.6	5.25	0.96	3.15
450	4.4	14.44	2.75	9.02
750	5.65	18.54	3.65	11.98
1000	6.55	21.49	4.35	14.27

Other Electrical and Mechanical Characteristics

Impedance: 75 ohms – Velocity of Propagation: 85%

Standard Shield



Tri-Shield



Super-Shield



Jacket

- High quality PVC with flame retardant jacket for indoor applications.
- PVC jacket for outdoor aerial applications.
- PE jacket for underground applications to resist abrasion and cuts

Shielding

The minimum recommended shielding for drop cable is an inner shield of aluminum-polypropylene-aluminum laminated tape bonded to the dielectric and a 60 percent braid of 34 AWG bare aluminum braid wire. This level of shielding is adequate for most of your applications and meets SCTE requirements.

Additional shielding is available to provide greater protection against signal ingress and egress.

All Basic Products are available in 4 shielding options:

Good Bonded tape + 60 % braid

Better Bonded tape + 77 % braid
 + 60 % braid + non-bonded tape (Tri-Shield)

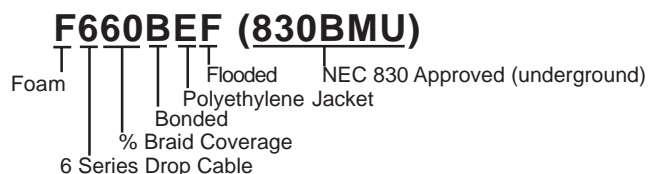
Best..... Bonded tape + 60 % braid + non-bonded tape +40 % braid (Super-Shield)

Drop Catalog Catalog Number Key

Steps to Build the Catalog Number for the Cable You Need

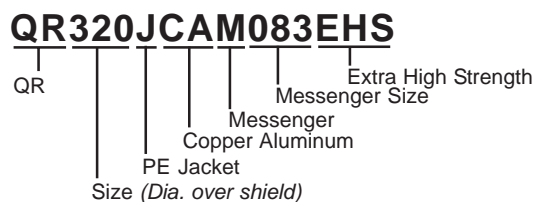
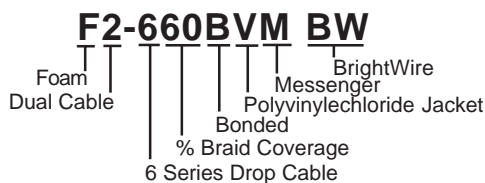
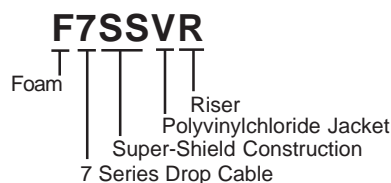
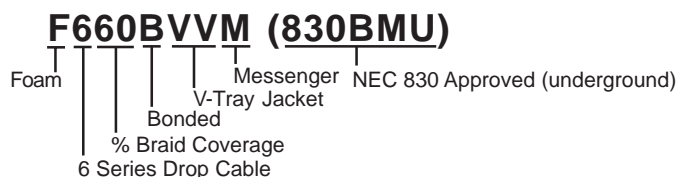
Prefix

- For 59, 6, 7 and 11 Series
F = Gas Expanded Polyethylene Dielectric Foam
2 = Dual Cable
59, 6, 7, 11 = Drop Cable Series
- For QR 320 Drop Only
QR® = Quantum Reach Cable Series

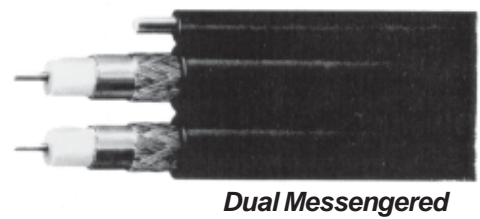
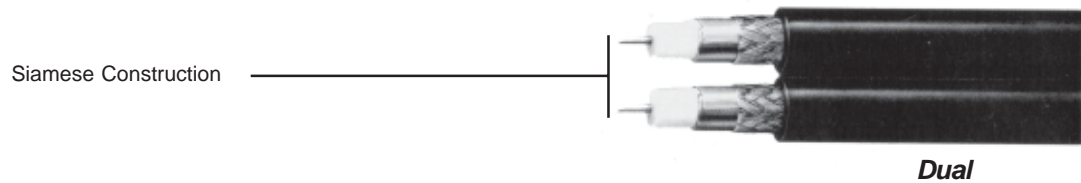
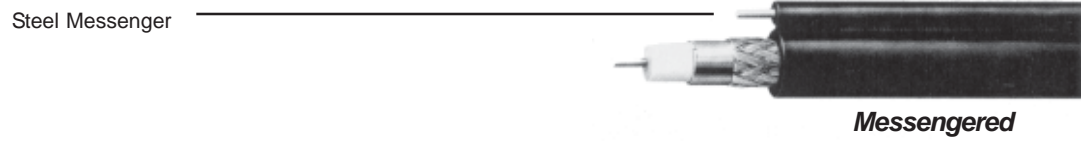
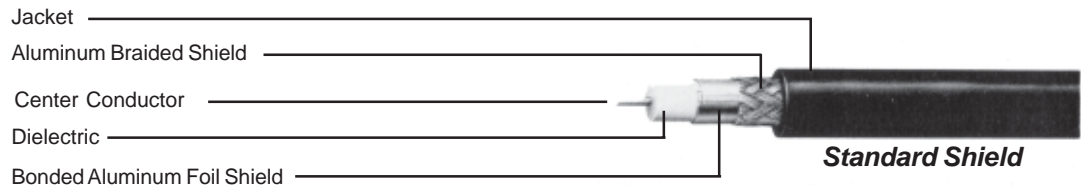


Suffix

- For 59, 6, 7 and 11 Series
First 2 = Percentage of Braid digits Coverage (e.g. 53, 60, 67, 90, 95)
B = Bonded Foil
E = Polyethylene Jacket
V = Polyvinylchloride Jacket
M = Messenger
F = Flooded
SS = Super-Shield
TS = Tri-Shield
BW = BrightWire®
APD = Amorphous Polypropylene Drop
V = NEC CATV
R = NEC CATVR
CMH = CSA Flame Test FT-1
CMG = CSA Flame Test FT-4
830BM = Meets NEC Article 830 Aerial Requirements
830BMU = Meets NEC Article 830 Underground Requirements
- For QR 320 Drop Only
J = Jacketed
CA = Copper Aluminum (*Copperclad*)
M = Messenger
083 = Size of Messenger (*also available in 109*)
EHS = Extra High Strength



Construction Diagrams



Product Specifications

Standard Construction

- 16 gauge [0.051 in. (1.29 mm)] copper covered steel center conductor
- Gas expanded polyethylene dielectric
- Inner shield aluminum-polypropylene-aluminum laminated tape with overlap bonded to dielectric
- Outer shield of 34 AWG bare aluminum braid wire
- Jacket of black polyvinylchloride or polyethylene (flooded)
- Nominal O.D. 0.319 in. (8.10 mm)

Physical Dimensions						
Component	Std. Shield		Tri-Shield		Super-Shield	
	in	mm	in	mm	in	mm
Nominal Center Conductor Diameter	0.051	1.29	0.051	1.29	0.051	1.29
Nominal Diameter Over Dielectric	0.225	5.72	0.225	5.72	0.225	5.72
Nominal Diameter Over First Shield (Tape)	0.232	5.89	0.232	5.89	0.232	5.89
Nominal Diameter Over Jacket	0.320	8.13	0.323	8.20	0.340	8.64
Nominal Jacket Wall Thickness	0.030	0.76	0.032	0.81	0.034	0.86
Nominal Diameter of Steel Messenger (Single)	0.072	1.83	0.072	1.83	0.072	1.83
(Dual)	0.109	2.72	0.109	2.72	0.109	2.77

Mechanical Characteristics			
Minimum Breaking	0.072	365 lbs	166 kg _f
Strength of Messenger	0.109	1800 lbs	1800 kg _f

Electrical Characteristics	
Nominal Impedance	75 Ohms
Nominal Velocity of Propagation	85%

Corrosion Resistance

Many products are available with a choice of two corrosion resistant treatments. Contact our Customer Service Department for specific information.

- **BrightWire®** is a dry, anti-corrosive treatment that chemically combines with metal components to form a protective shield against water and subsequent corrosion. (Exceeds the SCTE requirement for corrosion resistant cable.) BrightWire treatment is available on all PVC jacket products and can be recognized by its gold colored tape.
- **APD®** is a non-flowing, amorphous polypropylene flooding compound.

Specify BrightWire or APD when ordering product:

- **F760BV-BW** (BrightWire® anti-corrosive treatment)
- **F760BV-APD** (APD anti-corrosive treatment)

Attenuation (@68° F (20 C))		
Frequency (MHz)	Max. (dB/100 ft)	Max. (dB/100 m)
5	0.47	1.54
55	1.25	4.10
83	1.50	4.92
187	2.22	7.28
211	2.36	7.74
250	2.56	8.40
300	2.82	9.25
350	3.05	10.01
400	3.27	10.73
450	3.46	11.35
500	3.67	12.04
550	3.85	12.63
600	4.05	13.28
750	4.57	14.99
865	4.93	16.17
1000	5.32	17.45