



Southwire®



FACTORY AUTOMATION

**THE STRONGEST LINK TO YOUR SUCCESS...
FROM VISION TO FINISHED PRODUCT™**

SOUTHWIRE THE PEOPLE

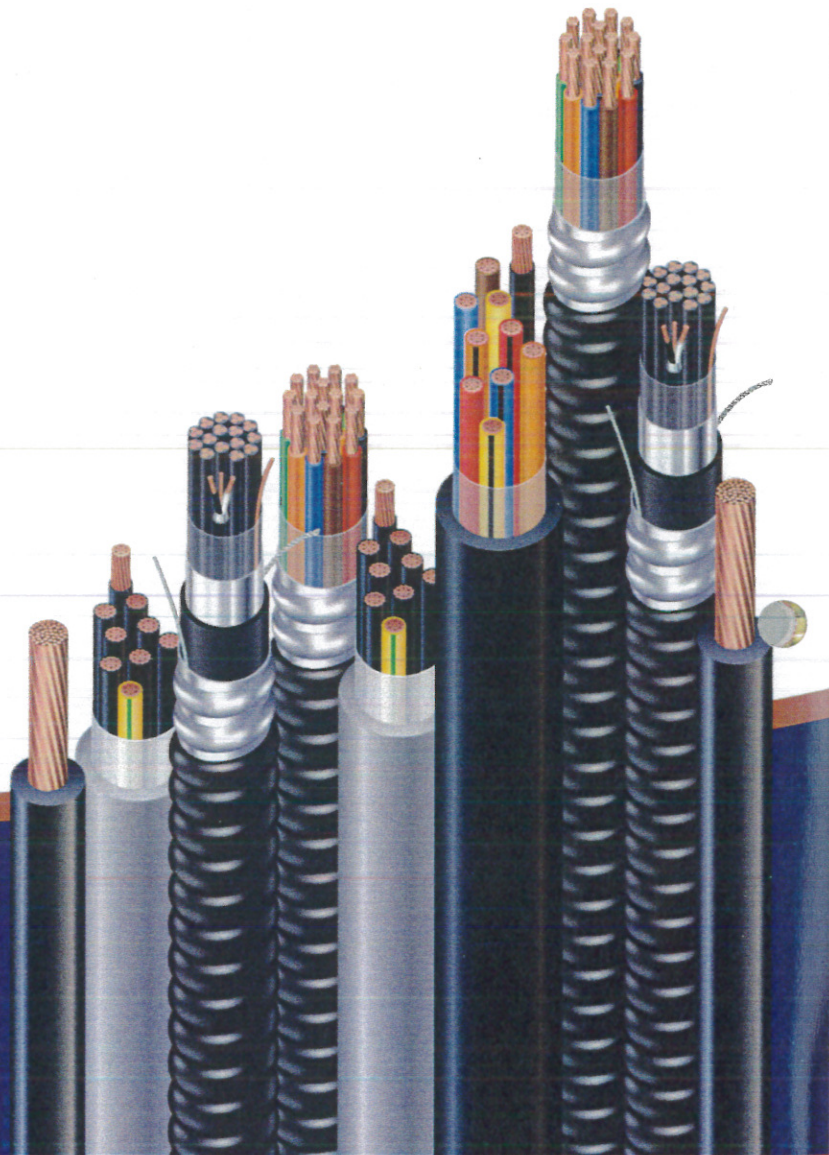
Southwire started as a small operation in Carrollton, Georgia with 12 employees in 1950. Today, the company employs more than 5,200 people at sales offices, customer service centers and manufacturing facilities throughout North America. Southwire's employees are dedicated to the company's founding principles of developing quality products matched with quality service. **While others have come and gone, and come again, Southwire has remained a constant and reliable manufacturer and supplier of wire and cable products for more than 60 years.**

SOUTHWIRE THE PRODUCTS

Southwire provides a full line of products, in **both copper and aluminum**, for a wide range of applications. The company leads the industry in new and innovative products that help you save time and money. In addition to its standard product line, Southwire can also manufacture custom products offering its customers the most complete line of products for almost any requirement or situation. No matter what the commercial or industrial application requires, you need look no further. Southwire has just the right Factory Automation product offering you're looking for.

SOUTHWIRE THE SERVICE

With customer service centers strategically located across the country, Southwire can fill all of your Factory Automation product needs where you need them, when you need them, resulting in savings of time and money. The broad product range, combined with these customer service centers mean you **get more products in fewer deliveries.**
























SOUTHWIRE COMPANY OFFERS PRODUCTS THAT OFFER SOLUTIONS.

SOUTHWIRE THE COMPANY

SINCE 1950, SOUTHWIRE HAS BEEN ON THE MOVE, GROWING AND EVOLVING INTO NORTH AMERICA'S LARGEST WIRE AND CABLE PRODUCER AND SUPPLIER. WITH INNOVATION BACKED BY EXPERIENCE, SOUTHWIRE LEADS THE INDUSTRY WITH THE BROADEST LINE OF WIRE AND CABLE PRODUCTS.

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SPECIAL APPLICATIONS CABLE



LOW CAPACITANCE MULTI-CONDUCTOR AWM STYLES - RATED CM/CL3

SOUTHWIRE PART NUMBER	TAPPAN SPEC NUMBER	DESCRIPTION	AWG	# OF COND./ PRS./ TRDS.	STRANDED/ SOLID	BC/ TC	SHIELD	NOM. DIA. (inch)	PACKAGING			JACKET COLOR	LISTING
									WEIGHT (lbs)	TYPE	LENGTH (feet)		
57902502	L20013.1A	22/2C STR TC OAS PE/ PVC CM GRAY	22	2C	STR	TC	OAS	0.172	17	REELS	1000	GRAY	CM/CL3
58016202	L30009.1A	20/2C STR TC OAS CM AWM STYLE 2092 300 V	20	2C	STR	TC	OAS	0.190	22	REELS	1000	GRAY	CM/CL3
57573902	L40008.1A	18/2C STR TC OAS PE/ PVC CM GRAY	18	2C	STR	TC	OAS	0.218	29	REELS	1000	GRAY	CM/CL3
57570602	L40009.1A	18/3C STR TC OAS PE/ PVC CM GRAY	18	2C	STR	TC	OAS	0.242	29	REELS	1000	GRAY	CM/CL3



RS-485 LOW CAPACITANCE COMPUTER CABLE - RATED CM

SOUTHWIRE PART NUMBER	TAPPAN SPEC NUMBER	DESCRIPTION	AWG	# OF COND./ PRS./ TRDS.	STRANDED/ SOLID	BC/ TC	SHIELD	NOM. DIA. (inch)	PACKAGING			JACKET COLOR	LISTING
									WEIGHT (lbs)	TYPE	LENGTH (feet)		
58165802	L19827.1A	24/1PR TD FOIL+BRAID LOWCAP RS485 CM GRAY	24	1PR	STR	TC	Foil/ 95-TCB	0.236	34	REELS	1000	GRAY	CM/CL2
58132101	L19954.2A	24/2PR TD FOIL+BRAID LOWCAP RS485 CM GRAY	24	2PR	STR	TC	Foil/ 95-TCB	0.353	58	REELS	1000	GRAY	CM/CL2
58142802	L19773.1A	24/3PR TD FOIL+BRAID LOWCAP RS485 CM GRAY	24	3PR	STR	TC	Foil/ 95-TCB	0.350	65	REELS	1000	GRAY	CM/CL2



RS-232 LOW CAPACITANCE COMPUTER CABLE - RATED CM

SOUTHWIRE PART NUMBER	TAPPAN SPEC NUMBER	DESCRIPTION	AWG	# OF COND./ PRS./ TRDS.	STRANDED/ SOLID	BC/ TC	SHIELD	NOM. DIA. (inch)	PACKAGING			JACKET COLOR	LISTING
									WEIGHT (lbs)	TYPE	LENGTH (feet)		
58142902	L19772.1A	24/2PR TD FOIL+BRAID LOWCAP RS485 CM GRAY	24	2PR	STR	TC	Foil/ 65-TCB	0.266	34	REELS	1000	GRAY	CM/CL2
58143002	L19853.2A	24/3PR TD FOIL+BRAID LOWCAP RS485 CM GRAY	24	3PR	STR	TC	Foil/ 65-TCB	0.260	40	REELS	1000	GRAY	CM/CL2

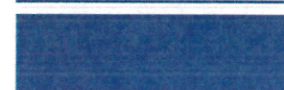


ENCODER CABLE													
SOUTHWIRE PART NUMBER	TAPPAN SPEC NUMBER	DESCRIPTION	AWG	# OF COND./ PRS./ TRDS.	STRANDED/ SOLID	BC/ TC	SHIELD	NOM. DIA. (inch)	PACKAGING			JACKET COLOR	LISTING
									WEIGHT (lbs)	TYPE	LENGTH (feet)		
-	L19887.1A	24/2PR TD EPS LOWCAP RS422 CM GRAY	24	2PR	STR	TC	EPS	0.340	45	REELS	1000	GRAY	CM/CL2
-	L19886.2A	24/3PR TD EPS LOWCAP RS422 CM GRAY	24	3PR	STR	TC	EPS	0.334	54	REELS	1000	GRAY	CM/CL2
-	L19888.1A	24/4PR TD EPS LOWCAP RS422 CM GRAY	24	4PR	STR	TC	EPS	0.377	65	REELS	1000	GRAY	CM/CL2



SIGNAL/BRAKE CABLE													
SOUTHWIRE PART NUMBER	TAPPAN SPEC NUMBER	DESCRIPTION	AWG	# OF COND./ PRS./ TRDS.	STRANDED/ SOLID	BC/ TC	SHIELD	NOM. DIA. (inch)	PACKAGING			JACKET COLOR	LISTING
									WEIGHT (lbs)	TYPE	LENGTH (feet)		
56692899	U50025	16/2C STR BC E1 OAS PVC 105C 300 V PLTC BLACK	16	2C	STR	BC	OAS	0.240	42	REELS	1000	BLACK	PLTC
57788302	V50031	16/2C STR BC E2 VNPVC OAS TYPE TC 600 V BLACK	16	2C	STR	BC	OAS	0.280	52	REELS	1000	BLACK	TYPE TC
56295489	V50066	16/2C STR BC E1 VNPVC OAS TYPE TC 600 V BLACK	16	2C	STR	BC	OAS	0.280	52	REELS	1000	BLACK	TYPE TC
58130002	T50036	16/2C STR TC FEP/FEP 200C 300 V CMP GRAY	16	2C	STR	TC	OAS	0.162	32	REELS	1000	GRAY	CMP

SPECIAL APPLICATIONS CABLE



SPECIAL APPLICATIONS CABLE



MULTI-CONDUCTOR 200°C PLENUM RATED - CMP/CL3P

SOUTHWIRE PART NUMBER	TAPPAN SPEC NUMBER	DESCRIPTION	AWG	# OF COND./ PRS./ TRDS.	STRANDED/ SOLID	BC/ TC	SHIELD	NOM. DIA. (inch)	PACKAGING			JACKET COLOR	LISTING
									WEIGHT (lbs)	TYPE	LENGTH (feet)		
57796701	T29982.1A	22/2PR STR TC EPS FEP/FEP 200C CMP RED	22	2PR	STR	TC	EPS-CD	0.135	19	REELS	1000	RED	CMP/CL3P
58130702	T20010.1A	22/2C STR TD OAS 200C CMP RED	22	2C	STR	TC	OAS	0.112	13	REELS	1000	RED	CMP/CL3P
58131501	T29978.1A	22/3 PR TD EPS MIDCAP 200C CMP RED	22	3PR	STR	TC	EPS	0.221	41	REELS	1000	RED	CMP/CL3P
58130202	T40026.1A	18/2C STR TD N/S 200C CMP RED	18	2C	STR	TC	N/S	0.138	16	REELS	1000	RED	CMP/CL3P
57904101	T40030.1A	18/2C STR TC OAS FEP/FEP 200C CMP RED	18	2C	STR	TC	OAS	0.154	24	REELS	1000	RED	CMP/CL3P
58130302	T40047.1A	18/3C STR TD OAS 200C CMP RED	18	3C	STR	TC	OAS	0.156	29	REELS	1000	RED	CMP/CL3P
58130402	T40037.1A	18/4C STR TD N/S 200C CMP RED	18	4C	STR	TC	N/S	0.170	29	REELS	1000	RED	CMP/CL3P
58130502	T40036.1A	18/4C STR TD OAS 200C CMP RED	18	4C	STR	TC	OAS	0.180	37	REELS	1000	RED	CMP/CL3P



AUDIO, CONTROL & INSTRUMENTATION - SHIELDED PAIRS - RATED CM/CL3

SOUTHWIRE PART NUMBER	TAPPAN SPEC NUMBER	DESCRIPTION	AWG	# OF COND./ PRS./ TRDS.	STRANDED/ SOLID	BC/ TC	SHIELD	NOM. DIA. (inch)	PACKAGING			JACKET COLOR	LISTING
									WEIGHT (lbs)	TYPE	LENGTH (feet)		
57584301	A29925.1A	22/2P STR TC EPS(CD) PP/PVC CM/CL3 GRAY	22	2PR	STR	TC	EPS (CD)	0.160	19	REELS	1000	GRAY	CM/CL3
58131601	SM2994.1A	22/3 PR STR TD EPS-3DW MDCP CM GRAY	22	3PR	STR	TC	EPS	0.255	42	REELS	1000	GRAY	CM/CL3



AUDIO, CONTROL & INSTRUMENTATION - SHIELDED PAIRS - PLENUM RATED CMP/CL3P													
SOUTHWIRE PART NUMBER	TAPPAN SPEC NUMBER	DESCRIPTION	AWG	# OF COND./ PRS./ TRDS.	STRANDED/ SOLID	BC/ TC	SHIELD	NOM. DIA. (inch)	PACKAGING			JACKET COLOR	LISTING
									WEIGHT (lbs)	TYPE	LENGTH (feet)		
58131902	M29978.5A	22/2 PR TD EPS-CD FEP MIDCAP CMP WHITE	22	2PR	STR	TC	EPS-CD	0.148	19	REELS	1000	WHITE	CM/CL3P
58131802	M29940.4A	22/3 PR TD EPS FEP MIDCAP CMP WHITE	22	3PR	STR	TC	EPS	0.221	39	REELS	1000	WHITE	CM/CL3P



TEMPERATURE CONTROL - PLENUM RATED - CMP/CL2P													
SOUTHWIRE PART NUMBER	TAPPAN SPEC NUMBER	DESCRIPTION	AWG	# OF COND./ PRS./ TRDS.	STRANDED/ SOLID	BC/ TC	SHIELD	NOM. DIA. (inch)	PACKAGING			JACKET COLOR	LISTING
									WEIGHT (lbs)	TYPE	LENGTH (feet)		
58132202	M40033.1A	18/1 PR TD OAS FEP MIDCAP CMP VIOLET	18	2C	STR	TC	OAS	0.178	24	REELS	1000	VIOLET	CM/CL3P



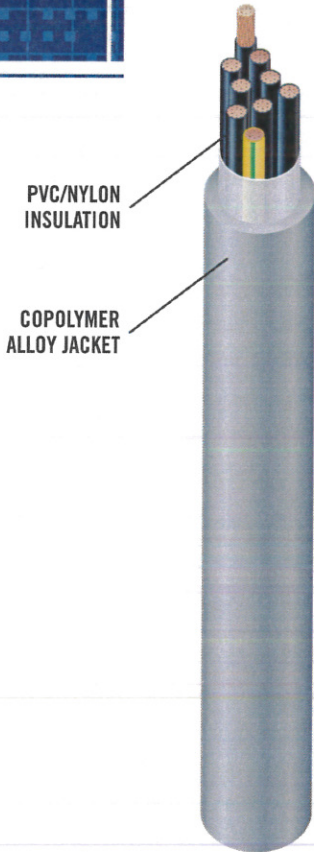
TEMPERATURE CONTROL - LOW CAPACITANCE - PLENUM RATED - CMP/CL2P													
SOUTHWIRE PART NUMBER	TAPPAN SPEC NUMBER	DESCRIPTION	AWG	# OF COND./ PRS./ TRDS.	STRANDED/ SOLID	BC/ TC	SHIELD	NOM. DIA. (inch)	PACKAGING			JACKET COLOR	LISTING
									WEIGHT (lbs)	TYPE	LENGTH (feet)		
57787702	M10003.1A	24/1PR STR TC OAS LOW-CAP CMP ORANGE	24	1PR	STR	TC	OAS	0.134	11	REELS	1000	ORANGE	CM/CL2P

SPECIAL APPLICATIONS CABLE



600 V FLEXIBLE TRAY CABLE

UL TYPE WTTC & TYPE TC-ER



PVC/NYLON
INSULATION

COPOLYMER
ALLOY JACKET

Flexible Stranded
Bare Copper

PVC/Nylon Insulation

Copolymer Alloy Jacket

Sunlight Resistant

Rated 75°C Wet
or 90°C Dry to -40°C

APPLICATIONS

- Approved for wet or dry locations
- Sunlight resistant
- Rated 75°C wet or 90°C dry to -40°C
- Approved for use in wind turbine applications

INDUSTRY APPROVALS

- UL 2277 – Type WTTC
- UL 1277 – Type TC-ER
- UL 1581
- UL 83
- UL 66
- NEC® Type TFFN Conductors (16 & 18 AWG)
- NEC® Type THHN/THWN Conductors (14 - 10 AWG)
- NEMA WC-70/ICEA S-95-658
- UL 1063 – Type MTW
- Oil Res. I & Oil Res. II
- Flame Tests: UL1277, DP-1, UL1685, IEEE 1202, CSA
- Meets material content restrictions of the RoHS-2 Directive

CONSTRUCTION

- Multi-conductor, unshielded control cable
- Flexible stranded bare copper
- PVC/nylon insulation, binder tape, ripcord
- **Jacket:**
Black copolymer alloy jacket, sequential footage markings, color coded black with white alpha-numeric print
- **Sample Jacket Marking:**
TAPPAN W & C E135319 (UL) TYPE TC-ER #/C XX AWG PVC/NYLON 75C WET OR 90C DRY SUN RES. OIL RES. I & OIL RES. II DIR BUR 600 V OR MTW FLEXING OR DP-1 OR WTTC 1000 V 90C DRY -40C OR SUBMERSIBLE PUMP CABLE OR c(UL) CIC FT4 OUTDOOR AWM II A/B 90C 600 V CLASS I DIV II RoHS MADE IN USA CE





**FACTORY
AUTOMATION**

WEIGHTS, MEASUREMENTS AND PACKAGING

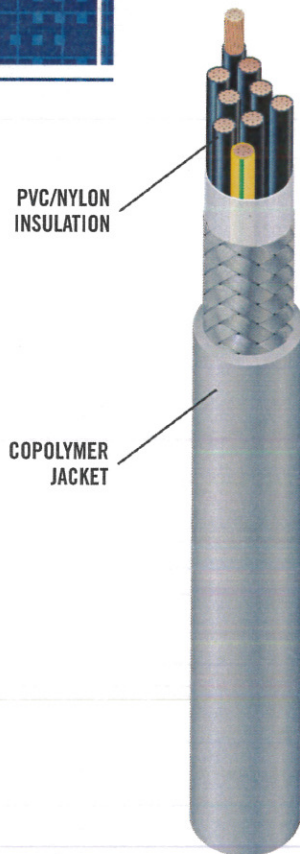
PART NUMBER	NO. OF COND. (INCLUDES GROUND)	AWG	STRANDING	OVERALL INSULATION THICKNESS (mils)	OVERALL JACKET THICKNESS (mils)	NOMINAL O.D. (inch)	NET WEIGHT (lbs/1000 ft)
UNSHIELDED 18 AWG MULTI CONDUCTOR							
58151101	3	18	16/30	20	45	0.295	58
58264201	4	18	16/30	20	45	0.350	70
58264499	5	18	16/30	20	45	0.365	75
58151301	7	18	16/30	20	45	0.395	84
-	8	18	16/30	20	45	0.440	98
-	9	18	16/30	20	45	0.445	112
58264601	12	18	16/30	20	45	0.455	167
58264701	18	18	16/30	20	45	0.570	251
58151401	25	18	16/30	20	60	0.660	310
-	50	18	16/30	20	60	0.890	645
UNSHIELDED 16 AWG MULTI CONDUCTOR							
58151501	3	16	26/30	20	45	0.310	62
58264801	4	16	26/30	20	45	0.340	80
58264901	5	16	26/30	20	45	0.375	96
58151601	7	16	26/30	20	45	0.390	112
-	8	16	26/30	20	45	0.425	130
58265101	9	16	26/30	20	45	0.470	153
58265201	12	16	26/30	20	45	0.505	215
-	16	16	26/30	20	45	0.595	270
58265301	18	16	26/30	20	60	0.620	290
58151701	25	16	26/30	20	60	0.700	400
-	41	16	26/30	20	60	0.930	625
-	50	16	26/30	20	60	0.980	760
UNSHIELDED 14 AWG MULTI CONDUCTOR							
58151801	3	14	41/30	20	45	0.345	88
58265401	4	14	41/30	20	45	0.370	110
58265501	5	14	41/30	20	45	0.405	122
58152101	7	14	41/30	20	45	0.435	170
-	8	14	41/30	20	45	0.510	220
58265699	9	14	41/30	20	45	0.530	242
58265701	12	14	41/30	20	60	0.590	308
582658XX	18	14	41/30	20	60	0.645	435
581522XX	25	14	41/30	20	60	0.765	590
UNSHIELDED 12 AWG MULTI CONDUCTOR							
58265901	4	12	65/30	25	45	0.435	150
-	5	12	65/30	25	45	0.480	174
-	7	12	65/30	25	45	0.570	242
UNSHIELDED 10 AWG MULTI CONDUCTOR							
58152301	4	10	105/30	25	45	0.540	255
-	5	10	105/30	25	45	0.590	310
-	7	10	105/30	25	60	0.660	399

Weights & dimensions are nominal and are subject to applicable industry tolerances.

600 V FLEXIBLE TRAY CABLE UL TYPE WTTCC & TYPE TC-ER



600 V SHIELDED FLEXIBLE TRAY CABLE UL TYPE TC-ER



APPLICATIONS

Approved for direct burial, wet or dry locations, sunlight resistant, rated 75°C wet or 90°C dry. CNC machining centers, grinding machines, bottling equipment, conveyors, processing equipment, assembly lines, control panels, machine tools for conformance to NFPA 79 2007, plant expansions, food & beverage, wind energy, cold temperature storage & packaging facilities, oil sands. Multiple approvals for multiple applications.

INDUSTRY APPROVALS

- UL 1277 – TYPE TC-ER OR DP-1
- UL 1581
- UL 83
- NEC® Type PVC/nylon Conductors
- NEMA WC-70/ICEA S-95-658
- UL -40°C Cold Bend and Impact
- Flame Tests: UL 1277, IEEE 1202, ICEA T-29-520, UL MTW, NFPA 79 2007, Class 1 Division 2 Per NEC® 336, 392, 501 c(UL) TYPE TC, CIC, FT4
- Meets material content restrictions of the RoHS-2 Directive

Flexible Stranded
Bare Copper

PVC/Nylon Insulation

Copolymer Jacket

Sunlight Resistant

Sizes 18 to 10 AWG

600 Volt

Rated 75°C Wet
or 90°C Dry

CONSTRUCTION

- Multi-conductor, shielded 18 & 16 AWG
- Flexible automation control cable
- Flexible stranded bare copper
- PVC/nylon insulation
- Foil tape shielded (100% coverage) and tinned copper braid (70% coverage)
- **Jacket:**
Flexible, oil resistant black copolymer jacket. Sequential footage markings. Color code: black with white numbers plus green/yellow ground.
- **Sample Jacket Marking:**
TAPPAN W & C E135319 (UL) TYPE TC-ER # C XX AWG PVC/NYLON 75C WET OR 90C DRY 600 V SUN RES OIL RES I & OIL RES II DIR BUR OR MTW FLEXING OR DP-1 OR WTC 1000 V 90C DRY -40°C OR SUBMERSIBLE PUMP CABLE OR c(UL) CIC FT4 OUTDOOR AWM II A/B 90C 600 V CLASS I DIV II ROHS MADE IN USA



Southwire®



greenSpec
RoHS Compliant