

XLP/TS-CPE INSTRUMENT CABLE #18AWG (SPOS & STOS) SINGLE SHIELDED PAIR/TRIAD AND MULTIPLE SHIELDED PAIRS AND TRIADS WITH OVERALL SHIELD TYPE TC 90DEG C 600VOLTS

CONSTRUCTION:

CONDUCTOR 7 STRANDED TINNED COPPER.

INSULATION THERMOSETTING FLAME RETARDANT CROSSLINKED POLYETHYLENE (XLP).

CONDUCTOR IDENTIFICATION **SINGLE PAIR/TRIAD:** PAIR IS CODED BLACK-WHITE AND TRIAD IS COLOR CODED BLACK-WHITE-RED.

MULTIPAIRS/TRIADS: PAIRS ARE CODED BLACK-WHITE AND TRIADS ARE CODED BLACK-WHITE-RED. ONE CONDUCTOR IN EACH PAIR OR TRIAD IS ALSO NUMBERED.

PAIRS/TRIADS INSULATED CONDUCTORS TWISTED INTO PAIRS OR TRIADS AND SHIELDED WITH ALUMINUM/MYLAR TAPE SHIELD AND STRANDED TINNED COPPER DRAIN WIRE.

OVERALL SHIELD MULTIPLE SHIELDED PAIRS/TRIADS CABLED TOGETHER WITH OVERALL ALUMINUM/MYLAR TAPE SHIELD AND STRANDED TINNED DRAIN.

JACKET SUNLIGHT RESISTANT, FLAME RETARDANT BLACK THERMOSETTING CPE RUBBER (TS-CPE).

Charlotte Wire Part# *	Size AWG	Number of Pairs**	Number of Triads**	Insulation Thickness (in.)	Jacket Thickness (in.)	Overall Diameter (in.)	Approx. Net Wt. (Lbs/Mft)
CW05451	18	1		.030"	.045"	.32"	56
CW05452	18	2		.030"	.045"	.53"	115
CW05453	18	4		.030"	.060"	.65"	204
CW05454	18	8		.030"	.060"	.84"	348
CW05455	18	12		.030"	.080"	1.06"	540
CW05456	18	16		.030"	.080"	1.18"	676
CW05457	18	24		.030"	.080"	1.39"	950
CW05458	18	36		.030"	.080"	1.64"	1440
CW05459	18		1	.030"	.045"	.34"	67
CW05460	18		4	.030"	.060"	.73"	230
CW05461	18		8	.030"	.080"	.97"	415
CW05462	18		12	.030"	.080"	1.18"	610

* To specify "ER" rating, add suffix "ER" to Charlotte Wire Part Number.

**To specify Black/Red pairs or Black/Red/Blue triads, add suffix "K2" to Charlotte Wire Part Number.

APPLICATION:

Suitable for control or instrumentation circuits rated 600Volts in power plants and heavy industrial locations where flame-resistance, stability in heat, physical durability, and excellent reliability is needed. May be used as sunlight resistant, directly buried, and wet or dry locations. Per NEC Articles 336 and 392, approved for installation in

- 1) raceways and cable tray systems including ladders, troughs, channels, solid bottom trays, and other similar structures,
- 2) lighting, control, and signal circuits,
- 3) aerial locations where supported by a messenger wire,
- 4) hazardous locations per NEC Article 501 Class 1 Division 2, and
- 5) Class 1 circuits as permitted in NEC Article 725.

STANDARDS:

UL 1277 for Type TC Cables.
 Passes UL & IEEE383 70,000BTU Flame Test.
 ICEA S-95-658/NEMA WC70 for Nonshielded 0 - 2KV Cables.
 NEC Articles 336 and 392 for Tray Cable Uses and Constructions.
 TC-ER rated cables comply with crush and impact requirements of MC cable.