

**XLP/TS-CPE INSTRUMENT CABLE #16AWG (SPOS & STOS)
SINGLE SHIELDED PAIR/TRIAD AND MULTIPLE SHIELDED PAIRS &
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)
CW05471	16	1		.030"	.045"	.34"	70
CW05472	16	2		.030"	.045"	.60"	141
CW05473	16	3		.030"	.060"	.66"	192
CW05474	16	4		.030"	.060"	.71"	230
CW05475	16	6		.030"	.060"	.82"	310
CW05476	16	8		.030"	.080"	.91"	435
CW05477	16	12		.030"	.080"	1.16"	598
CW05478	16	16		.030"	.080"	1.28"	740
CW05479	16	20		.030"	.080"	1.41"	910
CW05480	16	24		.030"	.080"	1.52"	1116
CW05481	16	36		.030"	.080"	1.83"	1590
CW05482	16		1	.030"	.045"	.36"	85
CW05483	16		4	.030"	.060"	.79"	315
CW05484	16		8	.030"	.080"	1.05"	600
CW05485	16		12	.030"	.080"	1.26"	840

* 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.