

"Taking Care of Business"

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## LOW SMOKE 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 SINGLE PAIR/TRIAD: PAIR IS CODED BLACK-WHITE AND TRIAD IS COLOR CODED BLACK-WHITE-RED. IDENTIFICATION 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 BLACK SUNLIGHT RESISTANT, FLAME RETARDANT, LOW SMOKE ZERO HALOGEN CROSSLINKED POLYOLEFIN (XLPO).

Charlotte		Number	Number	Insulation	Jacket	Overall	Approx.
Wire	Size	of	of	Thickness	Thickness	Diameter	Net Wt.
Part# *	AWG	Pairs**	Triads**	(in.)	(in.)	(in.)	(Lbs/Mft)
CW05521	16	1		.025"	.045"	.35"	55
CW05522	16	2		.025"	.045"	.56"	109
CW05523	16	3		.025"	.060"	.61"	160
CW05524	16	4		.025"	.060"	.68"	200
CW05525	16	6		.025"	.060"	.78"	274
CW05526	16	8		.025"	.060"	.82"	365
CW05527	16	12		.025"	.080"	1.06"	535
CW05528	16	16		.025"	.080"	1.21"	673
CW05529	16	20		.025"	.080"	1.29"	794
CW05530	16	24		.025"	.080"	1.44"	948
CW05531	16	36		.025"	.080"	1.68"	1377
CW05532	16		1	.025"	.045"	.37"	70
CW05533	16		2	.025"	.045"	.62"	175
CW05534	16		4	.025"	.060"	.77"	272
CW05535	16		8	.025"	.080"	1.02"	544
CW05536	16		12	.025"	.080"	1.23"	740

\* 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 366 and 392 for Tray Cable Uses and Constructions.

TC-ER rated cables comply with crush and impact requirements of MC cable.