



## LOW SMOKE TRAY CABLE - #10AWG TYPE TC-ER SUNLIGHT RESISTANT, DIRECT BURIAL, 600VOLTS XHHW-2 CONDUCTORS, LOW SMOKE ZERO HALOGEN JACKET

### CONSTRUCTION:

**CONDUCTOR** 7 STRANDED TINNED COPPER.

**INSULATION** THERMOSETTING XLP (TYPE XHHW-2) PER UL 44. INSULATED CONDUCTORS RATED 90DEGREES C WET OR DRY.

**CONDUCTOR IDENTIFICATION** INSULATED CONDUCTORS ARE COLOR CODED PER ICEA METHOD 1 TABLE E-2\*.

**ASSEMBLY** CONDUCTORS ARE CABLED TOGETHER WITH SUITABLE TAPE SEPARATOR AS NEEDED.

**OVERALL JACKET** SUNLIGHT RESISTANT, FLAME RESISTANT BLACK LOW SMOKE ZERO HALOGEN POLYOLEFIN.

Charlotte Wire Part#	Size AWG	Number of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Overall Diameter (in.)	Approx. Net Wt. (Lbs/Mft)
CW02941**	10	2	.030"	.045"	.29" x .47"	115
CW02942	10	3	.030"	.045"	.49"	170
CW02943	10	4	.030"	.060"	.57"	235
CW02944	10	5	.030"	.060"	.62"	283
CW02945	10	7	.030"	.060"	.67"	378
CW02946	10	9	.030"	.060"	.80"	460
CW02947	10	10	.030"	.080"	.90"	570
CW02948	10	12	.030"	.080"	.94"	650
CW02949	10	15	.030"	.080"	1.02"	790
CW02950	10	19	.030"	.080"	1.08"	975
CW02951	10	25	.030"	.080"	1.26"	1240
CW02952	10	37	.030"	.080"	1.44"	1770

\*To specify ICEA Method 1 Table E-1, add suffix "M1" to Charlotte Wire part number.

\*\*2/c is flat construction and TC only. TC-ER rating applies to 3 conductors or more.

### APPLICATION:

Suitable for control, signal, or lighting 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 insulation 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 725-21(B).

### STANDARDS:

UL 1277 for Type TC Cables.

Passes UL and IEEE383 70,000 BTU and ICEA 210,000BTU flame test.

UL Standard 44 for XHHW-2 Conductors.

ICEA S-95-658/NEMA WC70 for Nonshielded 0-2kv Cables.

NEC Articles 336 & 392 for Tray Cable uses and constructions.

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