

LOW SMOKE TRAY CABLE - #12AWG TYPE TC-ER SUNLIGHT RESISTANT, DIRECT BURIAL, 600VOLTS XHHW-2 CONDUCTORS, LOW SMOKE ZERO HALOGEN JACKET

CONSTRUCTION:

CONDUCTOR 7 STRANDED TINNED COPPER PER ASTM B-3.

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 A SUITABLE TAPE SEPARATOR AS NEEDED.

OVERALL JACKET SUNLIGHT RESISTANT, FLAME RETARDANT 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.)
CW02921**	12	2	.030"	.045"	.26" x .42"	85
CW02922	12	3	.030"	.045"	.44"	123
CW02923	12	4	.030"	.045"	.48"	156
CW02924	12	5	.030"	.045"	.54"	192
CW02925	12	7	.030"	.060"	.61"	270
CW02926	12	9	.030"	.060"	.71"	348
CW02927	12	10	.030"	.060"	.77"	380
CW02928	12	12	.030"	.060"	.80"	440
CW02929	12	15	.030"	.080"	.89"	558
CW02930	12	19	.030"	.080"	.96"	680
CW02931	12	20	.030"	.080"	1.01"	710
CW02932	12	25	.030"	.080"	1.12"	890
CW02933	12	30	.030"	.080"	1.20"	1040
CW02934	12	37	.030"	.080"	1.29"	1310

*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.