

## LOW SMOKE TRAY CABLE - #14AWG 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.)
CW02901**	14	2	.030"	.045"	.25" x .38"	65
CW02902	14	3	.030"	.045"	.40"	92
CW02903	14	4	.030"	.045"	.44"	118
CW02904	14	5	.030"	.045"	.48"	140
CW02905	14	7	.030"	.045"	.52"	180
CW02906	14	9	.030"	.060"	.63"	250
CW02907	14	10	.030"	.060"	.69"	275
CW02908	14	12	.030"	.060"	.72"	310
CW02909	14	15	.030"	.060"	.77"	380
CW02910	14	19	.030"	.060"	.82"	460
CW02911	14	20	.030"	.080"	.90"	520
CW02912	14	25	.030"	.080"	1.00"	640
CW02913	14	30	.030"	.080"	1.08"	740
CW02914	14	37	.030"	.080"	1.14"	890

\*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.