



## DIRECT BURIAL SHIELDED FIRE ALARM CABLE SUNLIGHT RESISTANT , DIRECT BURIAL 300VOLTS TYPE FPL , PLTC , 600VOLTS TYPE TC, NPLF 90DEG C

### CONSTRUCTION:

**CONDUCTOR** STRANDED SOFT DRAWN BARE COPPER.

**INSULATION** POLYVINYLCHLORIDE (PVC) WITH NYLON JACKET.

**CONDUCTOR IDENTIFICATION** INSULATED CONDUCTORS ARE COLOR CODED BLACK-RED FOR 2 CONDUCTOR, BLACK-RED-BLUE-ORANGE FOR 4 CONDUCTOR.

**WATER BLOCK TAPE , SHIELDING, & ASSEMBLY** INSULATED CONDUCTORS TWISTED TOGETHER WITH WATER BLOCK TAPE, ALONG WITH ALUMINUM/MYLAR TAPE SHIELD AND STRANDED TINNED COPPER DRAIN WIRE TO PROVIDE 100% SHIELDING COVERAGE.

**OVERALL JACKET** SUNLIGHT RESISTANT, FLAME RETARDANT, BLACK PVC PER UL 1277, WHICH PROTECTS AGAINST HEAT, FLAME, CHEMICALS, MOISTURE, AND MECHANICAL DAMAGE.

Charlotte Wire Part#	Number of Conductors	Size AWG	Insulation Thickness (in.)	Nylon Thickness (in.)	Jacket Thickness (in.)	Approx. O.D. (in.)	Net Weight (Lbs/Mft)
CW19410	2	18	.015"	.004"	.045"	.27"	41
CW19411	4	18	.015"	.004"	.045"	.32"	59
CW19412	2	16	.015"	.004"	.045"	.30"	46
CW19413	4	16	.015"	.004"	.045"	.34"	75
CW19414	2	14	.015"	.004"	.045"	.33"	62
CW19415	4	14	.015"	.004"	.045"	.38"	101
CW19416	2	12	.015"	.004"	.045"	.36"	81

### APPLICATION:

For use in power limited fire alarm systems. Suitable for general purpose fire alarm use such as fire alarms, burglar alarms, and smoke detectors. Also 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 Article 501 Class 1 Division 2.
- 5) Class 1 circuits as permitted in NEC Article 725.
- 6) Direct Burial applications.

### STANDARDS:

UL Standard 1277 for Type TC Cables.  
Passes UL and IEEE383 70,000BTU Flame Test.  
UL Standard 83 for THHN Conductors (Sizes 14awg and larger).  
UL Standard 62 for TFN Conductors (Sizes 16awg and 18awg).  
NEC Articles 336 and 392 for Tray Cable Uses and constructions, including direct burial.  
NEC Article 760: Type FPL and NPLF.  
NEC Article 725: Type PLTC.