

INSTRUMENT CABLE - #18 & #16AWG (POS) NONSHIELDED PAIRS WITH OVERALL SHIELD TYPE TC PVC/NYLON INSULATED 90DEG C 600VOLTS

CONSTRUCTION:

CONDUCTOR 7 STRANDED BARE COPPER.

INSULATION POLYVINYL CHLORIDE (PVC) WITH 4 MILS NYLON JACKET TYPE TFN PER UL 72 (GASOLINE AND OIL RESISTANT).

COLOR CODE PAIRS ARE COLOR CODED BLACK AND WHITE. ONE CONDUCTOR IN EACH PAIR IS ALSO NUMBERED FOR EASE OF IDENTIFICATION.

ASSEMBLY INSULATED CONDUCTORS TWISTED INTO PAIRS WITH AN APPROXIMATE 2" STAGGERED LAY OF TWIST TO REDUCE CROSSTALK. TWISTED PAIRS CABLED WITH OVERALL ALUMINUM/MYLAR TAPE SHIELD AND STRANDED TINNED COPPER DRAIN WIRE TO PROVIDE 100% SHIELDING COVERAGE.

JACKET SUNLIGHT AND MOISTURE RESISTANT, FLAME RETARDANT BLACK PVC.

Charlotte Wire Part#*	Size AWG	Number of Pairs	Insulation Thickness (in.)	Nylon Thickness (in.)	Jacket Thickness (in.)	Overall Diameter (in.)	Approx. Net Wt. (Lbs/Mft)
CW05251	18	2	.015"	.004"	.045"	.36"	60
CW05252	18	4	.015"	.004"	.045"	.48"	108
CW05268	18	6	.015"	.004"	.060"	.57"	158
CW05253	18	8	.015"	.004"	.060"	.64"	200
CW05254	18	12	.015"	.004"	.060"	.76"	280
CW05255	18	16	.015"	.004"	.060"	.82"	360
CW05256	18	24	.015"	.004"	.080"	1.02"	540
CW05257	18	36	.015"	.004"	.080"	1.20"	760
CW05258	18	50	.015"	.004"	.080"	1.41"	1020
CW05259	16	2	.015"	.004"	.045"	.37"	82
CW05260	16	3	.015"	.004"	.045"	.42"	119
CW05261	16	4	.015"	.004"	.045"	.54"	153
CW05270	16	6	.015"	.004"	.060"	.63"	230
CW05262	16	8	.015"	.004"	.060"	.68"	280
CW05263	16	12	.015"	.004"	.060"	.81"	389
CW05264	16	16	.015"	.004"	.080"	.94"	535
CW05265	16	24	.015"	.004"	.080"	1.14"	750
CW05266	16	36	.015"	.004"	.080"	1.34"	1065
CW05267	16	50	.015"	.004"	.080"	1.58"	1420

* To specify "ER" rating, add suffix "ER" to Charlotte Wire Part Number.

APPLICATION:

Control, Signal, or Lighting circuits rated 600Volts. 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 Art.501 Class 1 Division 2,
- 5) Class 1 circuits as permitted in NEC Article 725.

STANDARDS:

- UL Standard 1277 for Type TC Cables.
- Passes UL and IEEE383 70,000BTU Flame Test.
- UL Standard 62 for TFN Conductors.
- NEC Articles 336 and 392 for Tray Cable uses and constructions.
- TC-ER rated cables comply with crush and impact requirements of MC cable.