Charlotte™ Wire & Cable Company Inc.

"Taking Care of Business"

toll free: 800-929-9473

INSTRUMENT CABLE - #16AWG (SPOS & STOS)

SHIELDED PAIRS OR TRIADS 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 CODED BLACK AND WHITE. TRIADS ARE CODED BLACK, WHITE, AND RED. ONE CONDUCTOR IN EACH PAIR OR TRIAD IS ALSO NUMBERED FOR EASE OF IDENTIFICATION.

PAIRS/TRIADS INSULATED CONDUCTORS TWISTED INTO PAIRS OR TRIADS WITH AN APPROXIMATE 2" LAY OF TWIST. TWISTED PAIRS OR TRIADS SHIELDED INDIVIDUALLY WITH ALUMINUM TAPE SHIELD AND STRANDED TINNED COPPER DRAIN WIRE.

OVERALL SHIELD SHIELDED PAIRS CABLED TOGETHER 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	Number of Triads	Insulation Thickness (in.)	Jacket Thickness (in.)	Overall Diameter (in.)	Approx. Net Wt. (Lbs/Mft)
CW05291	16	2		.015"	.050"	.40"	90
CW05292	16	3		.015"	.050"	.46"	123
CW05293	16	4		.015"	.060"	.58"	168
CW05294	16	6		.015"	.060"	.66"	226
CW05295	16	8		.015"	.060"	.76"	320
CW05296	16	12		.015"	.080"	.96"	490
CW05297	16	16		.015"	.080"	1.06"	644
CW05298	16	20		.015"	.080"	1.15"	790
CW05299	16	24		.015"	.080"	1.26"	945
CW05300	16	36		.015"	.080"	1.48"	1360
CW05301	16	50		.015"	.080"	1.77"	1910
CW05308	16		2	.015"	.050"	.52"	144
CW05302	16		4	.015"	.060"	.61"	254
CW05303	16		8	.015"	.080"	.85"	470
CW05304	16		12	.015"	.080"	1.01"	675
CW05305	16		16	.015"	.080"	1.15"	846
CW05306	16		24	.015"	.080"	1.40"	1220

* 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.