TYPE ITC/PLTC-ER - Overall Shielded Braid Armored





Areas of Use

Instrumentation cables have a wide range of usage in process control and data processes, in analog and digital signal transmission. Factories, refineries, petrochemical plants, power plants, natural gas filling plants etc. make up the general areas that these cables are used. These cables meets the crush and impact requirements and deformation resistance according to UL 2556.

Cable Construction

Conductor	Stranded Annealed Copper (ASTM B3)
Insulation	PVC (UL 1581 Class 105°C, EN 50363-3 TI3)
Core Colors	Multicore: White Numbered
Lay-up	Cores are stranded in layers
Separator	PET Foil
Overall Screen	Al-PET Foil (with 7x0.3 mm Tinned Copper Drain Wire)
Inner Sheath	PVC (UL 1581 Class 105°C)
Reference Standards	UL 13, UL 2250, NEC Article 725, NEC Article 727
Armour	Galvanised Steel Wire Braid
Outer Sheath	Heat Resistant and Sunlight Resistant PVC (UL 1581 Class 105°C), Black, Blue (other colors upon request)

Technical Properties

Operating Voltage	300 V
Test Voltage	1.5 kV
Dielectric Voltage Withstand	UL 2556
Conductor Resistance	UL 1581 - Section 220
Insulation Resistance	>100.1 MΩ/kft (at 15.6°C)
Max. Operating Temperature	Fixed: -40°C ... +105°C, Flexible: -5°C ... +60°C
Flame Retardancy	FT4/IEEE 1202 Flame Test (UL 1685), IEC/EN 60332-1, IEC/EN 60332-3-24 (CAT C)
Oil Resistance	ASTM No 2 oil 70°C 4 hours (IEC / EN 60811- 404)
Sunlight Resistance	Acc. to UL 1581, Sec. 1200
Min. Bending Radius (Fixed)	8 x Cable Diameter

Cross Section

Configuration / Cross-Section (AWG)	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
2x1x20	8.8	4.51	113
2x1x18	9.4	7.55	128
2x1x16	10.2	11.72	149

2x1x14	11.7	20.24	191
3x1x20	9.1	4.51	121
3x1x18	9.7	7.55	139
3x1x16	10.7	11.72	162
3x1x14	12.2	20.24	206
4x1x20	9.6	4.51	132
4x1x18	10.4	7.55	152
4x1x16	11.3	11.72	178
4x1x14	13.0	20.24	227
5x1x20	10.2	4.51	147
5x1x18	11.2	7.55	172
5x1x16	12.0	11.72	192
5x1x14	14.2	20.24	264
7x1x20	10.9	4.51	165
7x1x18	11.8	7.55	188
7x1x16	12.6	11.72	212
7x1x14	15.1	20.24	295
8x1x20	11.7	4.51	182
8x1x18	12.6	7.55	206
8x1x16	14.1	11.72	252
8x1x14	16.9	20.24	343
10x1x20	12.6	4.51	204
10x1x18	14.1	7.55	248
10x1x16	15.8	11.72	301
10x1x14	18.5	20.24	389
12x1x20	12.9	4.51	214
12x1x18	14.4	7.55	260
12x1x16	16.2	11.72	315
12x1x14	19.0	20.24	410
16x1x20	14.2	4.51	257
16x1x18	16.0	7.55	312
16x1x16	17.4	11.72	352
16x1x14	21.6	20.24	545
20x1x20	15.8	4.51	306
20x1x18	17.3	7.55	348
20x1x16	18.8	11.72	395
20x1x14	23.9	20.24	648
24x1x20	16.9	4.51	336
24x1x18	18.6	7.55	387
24x1x16	21.3	11.72	517
24x1x14	25.9	20.24	711

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