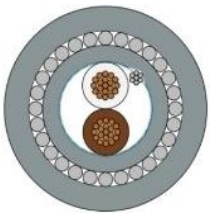
TYPE ITC/PLTC-ER - Overall Shielded Armored





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
Inner Sheath	PVC (UL 1581 Class 105°C)
Armour	Round Galvanised Steel Wire
Outer Sheath	Heat Resistant and Sunlight Resistant PVC (UL 1581 Class 105°C), Black, Blue (other colors upon request)
Reference Standards	UL 13, UL 2250, NEC Article 725, NEC Article 727
Overall Screen	Al-PET Foil (with 7x0.3 mm Stranded Tinned Copper)

Technical Properties

Test Voltage	1.5 kV
Dielectric Voltage Withstand	UL 2556
Max. Operating Temperature	Fixed: -40°C ... +105°C, Flexible: -5°C ... +60°C
Operating Voltage	300 V
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	8 x Cable Diameter
Conductor Resistance	UL 1581 - Section 220
Insulation Resistance	>100.1 MΩ/kft (at 15.6°C)

Cross Section

Configuration / Cross-Section (AWG)	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
2x1x20	9.4	4.51	189
2x1x18	10.2	7.55	217
2x1x16	10.8	11.72	240

2x1x14	12.3	20.24	303
3x1x20	9.7	4.51	200
3x1x18	10.5	7.55	228
3x1x16	11.3	11.72	258
3x1x14	12.8	20.24	320
4x1x20	10.4	4.51	225
4x1x18	11.0	7.55	247
4x1x16	11.9	11.72	280
4x1x14	13.6	20.24	352
5x1x20	10.8	4.51	237
5x1x18	11.8	7.55	275
5x1x16	12.6	11.72	308
5x1x14	14.8	20.24	407
7x1x20	11.5	4.51	265
7x1x18	12.4	7.55	299
7x1x16	13.2	11.72	334
7x1x14	16.2	20.24	469
8x1x20	12.3	4.51	294
8x1x18	13.2	7.55	328
8x1x16	14.7	11.72	390
8x1x14	17.5	20.24	516
10x1x20	13.2	4.51	326
10x1x18	14.7	7.55	386
10x1x16	16.4	11.72	456
10x1x14	19.1	20.24	580
12x1x20	13.5	4.51	340
12x1x18	15.0	7.55	402
12x1x16	16.8	11.72	480
12x1x14	19.6	20.24	610
16x1x20	14.8	4.51	399
16x1x18	16.6	7.55	472
16x1x16	18.0	11.72	528
16x1x14	23.0	20.24	884
20x1x20	16.4	4.51	461
20x1x18	17.9	7.55	524
20x1x16	19.4	11.72	590
20x1x14	24.8	20.24	993
24x1x20	17.5	4.51	509
24x1x18	19.2	7.55	577
24x1x16	22.7	11.72	857
24x1x14	26.8	20.24	1096

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