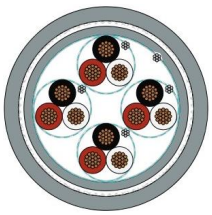
TYPE ITC/PLTC-ER - Individual & Overall Shielded Braid Armored





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	Pair: Black / White, Numbered Triples: Black / White / Red, Numbered Quad: Black / White / Red / Blue, Numbered
Individual Seperaor	PET Foil
Individual Screen	Al-PET Foil (with 0.60 mm Tinned Copper Drain Wire)
Lay-up	Shielded pairs / triples / quads are stranded in layers
Separator	PET Foil
Inner Sheath	PVC (UL 1581 Class 105°C)
Armour	Galvanised Steel Wire Braid
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

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	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)

(AWG)			
2x2x20	12.3	4.51	193
2x2x18	13.7	7.55	234
2x2x16	14.8	11.72	261
2x2x14	17.6	20.24	346
3x2x20	12.8	4.51	213
3x2x18	14.3	7.55	255
3x2x16	16	11.72	306
3x2x14	18.5	20.24	382
4x2x20	14	4.51	253
4x2x18	15.8	7.55	305
4x2x16	17.1	11.72	338
4x2x14	20.9	20.24	506
5x2x20	14.9	4.51	280
5x2x18	16.8	7.55	334
5x2x16	18.3	11.72	376
5x2x14	22.9	20.24	580
7x2x20	16.4	4.51	338
7x2x18	18	7.55	381
7x2x16	20.2	11.72	462
7x2x14	24.5	20.24	665
10x2x20	20.2	4.51	469
10x2x18	23.2	7.55	592
10x2x16	25.3	11.72	662
10x2x14	30.3	20.24	884
12x2x20	21.1	4.51	539
12x2x18	23.8	7.55	641
12x2x16	26	11.72	702
12x2x14	31.2	20.24	945
16x2x20	23.3	4.51	638
16x2x18	25.8	7.55	721
16x2x16	28.7	11.72	845
16x2x14	35.1	20.24	1177
2x3x20	13.6	4.51	232
2x3x18	14.7	7.55	258
2x3x16	16.3	11.72	308
2x3x14	19.1	20.24	390
3x3x20	14.2	4.51	255
3x3x18	15.9	7.55	305
3x3x16	17.1	11.72	339
3x3x14	21.1	20.24	513
4x3x20	15.1	4.51	285
4x3x18	17	7.55	338
4x3x16	18.3	11.72	381
4x3x14	23.2	20.24	596
5x3x20	16.6	4.51	334
5x3x18	18.2	7.55	378

5x3x16	20.3	11.72	462
5x3x14	25	20.24	674

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