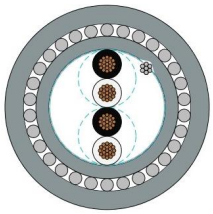
TYPE ITC/PLTC-ER - Overall Shielded Pairs (Triads) Armored





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
Lay-up	Pairs / triples / quads are stranded in layers
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
Separator	PET Foil
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 (AWG)	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
2x2x20	12.0	4.51	259
2x2x18	13.0	7.55	291

2x2x16	14.4	11.72	344
2x2x14	17.0	20.24	445
3x2x20	12.5	4.51	275
3x2x18	13.5	7.55	313
3x2x16	15.0	11.72	369
3x2x14	17.8	20.24	483
4x2x20	13.2	4.51	303
4x2x18	14.8	7.55	364
4x2x16	16.5	11.72	428
4x2x14	19.1	20.24	534
5x2x20	14.4	4.51	347
5x2x18	16.2	7.55	415
5x2x16	17.5	11.72	464
5x2x14	21.7	20.24	750
7x2x20	15.2	4.51	382
7x2x18	17.2	7.55	456
7x2x16	18.7	11.72	515
7x2x14	23.7	20.24	855
10x2x20	18.5	4.51	499
10x2x18	21.8	7.55	736
10x2x16	24.2	11.72	849
10x2x14	28.9	20.24	1121
12x2x20	18.9	4.51	519
12x2x18	22.8	7.55	792
12x2x16	24.8	11.72	892
12x2x14	29.7	20.24	1179
16x2x20	21.8	4.51	752
16x2x18	24.6	7.55	884
16x2x16	26.9	11.72	995
16x2x14	34.0	20.24	1600
20x2x20	24.0	4.51	865
20x2x18	26.6	7.55	990
20x2x16	29.7	11.72	1163
20x2x14	37.0	20.24	1789
24x2x20	25.9	4.51	955
24x2x18	29.2	7.55	1140
24x2x16	33.9	11.72	1563
24x2x14	41.3	20.24	2145
2x3x20	12.9	4.51	289
2x3x18	14.3	7.55	342
2x3x16	15.8	11.72	396
2x3x14	18.4	20.24	502
3x3x20	13.4	4.51	308
3x3x18	14.9	7.55	368
3x3x16	16.5	11.72	431
3x3x14	19.3	20.24	548
4x3x20	14.6	4.51	359

4x3x18	16.4	7.55	423
4x3x16	17.6	11.72	472
4x3x14	22.0	20.24	767
5x3x20	16.0	4.51	411
5x3x18	17.4	7.55	466
5x3x16	18.8	11.72	519
5x3x14	24.1	20.24	877

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