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

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
Conductor	Stranded Annealed Copper (ASTM B3)
Separator	PET Foil
Overall Screen	Al-PET Foil (with 7x0.3 mm Tinned Copper Drain Wire)
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

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	11.4	4.51	169
2x2x18	12.4	7.55	191
2x2x16	13.8	11.72	233
2x2x14	16.4	20.24	311
3x2x20	11.9	4.51	181
3x2x18	12.9	7.55	206
3x2x16	14.4	11.72	250
3x2x14	17.2	20.24	338
4x2x20	12.6	4.51	200
4x2x18	14.2	7.55	245
4x2x16	15.9	11.72	296
4x2x14	18.5	20.24	377
5x2x20	13.8	4.51	235
5x2x18	15.1	7.55	269
5x2x16	16.9	11.72	321
5x2x14	20.8	20.24	493
7x2x20	14.6	4.51	259
7x2x18	16.6	7.55	317
7x2x16	18.1	11.72	361
7x2x14	22.8	20.24	574
10x2x20	17.9	4.51	350
10x2x18	20.9	7.55	480
10x2x16	23.3	11.72	561
10x2x14	28.0	20.24	770
12x2x20	18.3	4.51	367
12x2x18	21.4	7.55	502
12x2x16	23.9	11.72	603
12x2x14	28.8	20.24	813
16x2x20	20.9	4.51	496
16x2x18	23.7	7.55	588
16x2x16	26.0	11.72	671
16x2x14	31.4	20.24	940
20x2x20	23.1	4.51	576
20x2x18	25.7	7.55	664
20x2x16	28.8	11.72	798
20x2x14	35.4	20.24	1146
24x2x20	25.0	4.51	651
24x2x18	28.3	7.55	781
24x2x16	31.3	11.72	898
24x2x14	39.7	20.24	1415
2x3x20	12.3	4.51	188
2x3x18	13.7	7.55	230
2x3x16	14.7	11.72	256
2x3x14	17.8	20.24	351
3x3x20	12.8	4.51	205
3x3x18	14.3	7.55	249

3x3x16	15.9	11.72	300
3x3x14	18.7	20.24	387
4x3x20	14.0	4.51	243
4x3x18	15.8	7.55	297
4x3x16	17.0	11.72	330
4x3x14	21.1	20.24	512
5x3x20	14.9	4.51	267
5x3x18	16.8	7.55	324
5x3x16	18.2	11.72	367
5x3x14	23.2	20.24	589

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