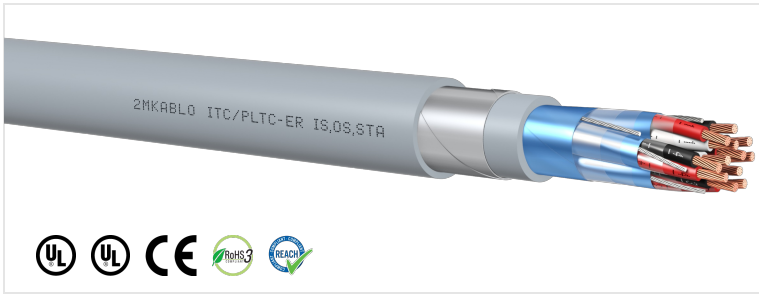
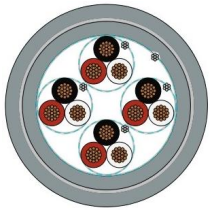
TYPE ITC/PLTC-ER - Individual & Overall Shielded Tape Armored





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)
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)
Armour	Galvanised Steel Tape

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)
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	11.9	4.51	201.98
2x2x18	13.3	7.55	244.44
2x2x16	14.4	11.72	275.24
2x2x14	17.2	20.24	361.97
3x2x20	12.4	4.51	221.43
3x2x18	13.9	7.55	267.6
3x2x16	13.9	11.72	276.88
3x2x14	18.1	20.24	398.92
4x2x20	13.6	4.51	264.51
4x2x18	14.9	7.55	298.3
4x2x16	16.7	11.72	355.83
4x2x14	20.1	20.24	487.53
5x2x20	14.5	4.51	292.78
5x2x18	16.4	7.55	348.19
5x2x16	17.9	11.72	394.4
5x2x14	21.6	20.24	541.05
7x2x20	16	4.51	350.71
7x2x18	17.6	7.55	395.23
7x2x16	19.8	11.72	486.75
7x2x14	23.7	20.24	641.47
10x2x20	19.8	4.51	488.25
10x2x18	21.9	7.55	554.72
10x2x16	24.5	11.72	651.63
10x2x14	29.5	20.24	868.43
12x2x20	20.3	4.51	519.43
12x2x18	23	7.55	616.52
12x2x16	25.2	11.72	693.87
12x2x14	30.4	20.24	927.56
16x2x20	22	4.51	597.58
16x2x18	25	7.55	709.82
16x2x16	27.9	11.72	837.4
16x2x14	34.3	20.24	1152.38
2x3x20	13.2	4.51	242.19
2x3x18	14.3	7.55	271.63
2x3x16	15.9	11.72	320.89
2x3x14	18.7	20.24	407.18
3x3x20	13.8	4.51	266.66
3x3x18	15	7.55	299.8
3x3x16	16.7	11.72	353.65
3x3x14	20.3	20.24	493.49
4x3x20	14.7	4.51	296.7
4x3x18	16.6	7.55	354.69
4x3x16	17.9	11.72	395.57
4x3x14	21.9	20.24	555.41
5x3x20	16.2	4.51	347.75
5x3x18	17.8	7.55	394.56

5x3x16	19.9	11.72	481.38
5x3x14	24.2	20.24	649.68

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