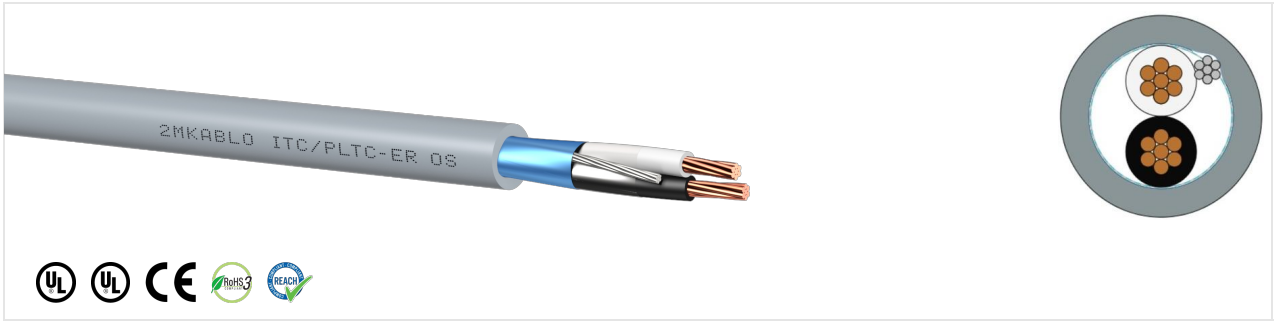
TYPE ITC/PLTC-ER - Overall Shielded



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
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 (AWG)	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
2x1x20	6.0	4.51	42
2x1x18	6.6	7.55	49
2x1x16	7.2	11.72	58
2x1x14	8.5	20.24	79

3x1x20	6.3	4.51	46
3x1x18	6.9	7.55	54
3x1x16	7.5	11.72	63
3x1x14	9.0	20.24	88
4x1x20	6.8	4.51	51
4x1x18	7.4	7.55	59
4x1x16	8.1	11.72	70
4x1x14	9.8	20.24	99
5x1x20	7.3	4.51	56
5x1x18	8.0	7.55	66
5x1x16	8.8	11.72	77
5x1x14	10.8	20.24	114
7x1x20	7.8	4.51	64
7x1x18	8.6	7.55	75
7x1x16	9.5	11.72	88
7x1x14	11.7	20.24	131
8x1x20	8.6	4.51	71
8x1x18	9.5	7.55	83
8x1x16	10.7	11.72	103
8x1x14	13.1	20.24	146
10x1x20	9.5	4.51	81
10x1x18	10.8	7.55	100
10x1x16	12.0	11.72	117
10x1x14	14.7	20.24	168
12x1x20	9.8	4.51	87
12x1x18	11.2	7.55	108
12x1x16	12.4	11.72	127
12x1x14	15.2	20.24	183
16x1x20	11.0	4.51	108
16x1x18	12.2	7.55	126
16x1x16	13.6	11.72	148
16x1x14	17.3	20.24	236
20x1x20	12.1	4.51	124
20x1x18	13.5	7.55	145
20x1x16	15.1	11.72	171
20x1x14	19.2	20.24	274
24x1x20	13.2	4.51	140
24x1x18	14.9	7.55	165
24x1x16	17.1	11.72	213
24x1x14	21.2	20.24	313

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