LIY(St)Y-TP



Areas of Use

These shielded and PVC insulated cables are used as signal transmission cables in industrial applications. These can be easily used with their flexible construction in narrow applications like electronic control systems of computer or audio systems or the communication sector, electronic circuits, measurement devices, machine design, office equipment, etc. These used for indoor applications. Screening protects the cable from the outer electrical effects.

Cable Construction

Conductor	Stranded Annealed Copper (IEC/EN 60228, Class 5, 0.34 mm²: Class 2)
Insulation	PVC (EN 50290-2-21)
Lay-up	Cores are twisted as pairs and pairs are stranded in layers
Separator	PET Foil
Drain Wire	Stranded Tinned Copper
Screen	Al-PET Foil
Outer Sheath	PVC (EN 50290-2-22), RAL 7001 - Grey
Reference Standards	VDE 0812, TS 13755
Core Colors	DIN 47100 or Black-White and Numbered

Technical Properties

Operating Voltage	0.14 mm²..0.25 mm² 250 V; 0.34 mm²..1.50 mm² 300 V / 500 V; 2.50 mm²..... 450 V / 750 V
Test Voltage	0.14 mm²..25 mm² 1200 V; 0.34 mm²..10 mm² 1500 V; 1.50 mm²..... 2500 V
Loop Resistance	0.14 mm²-≤276 Ω/km; 0.22 mm²-≤170 Ω/km; 0.25 mm²-≤155.6 Ω/km; 0.34 mm²-≤112 Ω/km; 0.50 mm²-≤78 Ω/km; 0.75 mm²-≤52 Ω/km; 1.00 mm²-≤39 Ω/km; 1.50 mm²-≤26.6 Ω/km
Insulation Resistance	>200 M.Ωxkm
Capacitance (@800Hz)	Core - Core: 0.14 mm²-≤80 nF/km; 0.22 mm²..0.34 mm²-≤100 nF/km; 0.50 mm²..0.75 mm²-≤110 nF/km; 1.00 mm²..1.50 mm²-≤120nF/km; 2.50 mm²- ≤140 nF/km Core-Screen: 0.14 mm²-≤120 nF/km; 0.22 mm²..0.34 mm²-≤150 nF/km; 0.50 mm²..0.75 mm²-≤170 nF/km; 1.00 mm²..1.50 mm²-≤180nF/km; 2.50 mm²- ≤240 nF/km
Indutance (approx.)	0.65 mH/km
Temperature Range	Fixed: -30 °C .....+70 °C, Flexible: -5 °C .....+70 °C
Flame Retardancy	IEC/EN 60332-1
Min. Bending Radius	Fixed: 8 x Cable Diameter, Flexible: 15 x Cable Diameter

Cross Section

Configuration / Cross-Section (mm/mm²)	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
2x2x0.5	7.0	19	59
3x2x0.5	7.5	28	77

4x2x0.5	8.3	37	97
5x2x0.5	9.2	46	118
6x2x0.5	10.2	54	140
7x2x0.5	10.2	63	154
8x2x0.5	11.2	72	181
10x2x0.5	13.4	89	234
2x2x0.75	7.9	31	78
3x2x0.75	8.5	44	103
4x2x0.75	9.4	57	129
5x2x0.75	10.5	70	161
6x2x0.75	11.6	83	190
7x2x0.75	11.6	96	209
8x2x0.75	12.8	109	243
10x2x0.75	15.3	135	312
2x2x1	8.4	39	93
3x2x1	9.1	57	123
4x2x1	10.0	74	155
5x2x1	11.2	92	193
6x2x1	12.4	109	231
7x2x1	12.4	126	255
8x2x1	13.6	144	292
10x2x1	16.2	178	373
2x2x1.5	10.2	57	132
3x2x1.5	11.0	83	179
4x2x1.5	12.3	109	231
5x2x1.5	13.6	135	280
6x2x1.5	14.9	161	331
7x2x1.5	14.9	187	367
8x2x1.5	16.4	213	424
10x2x1.5	19.6	265	541

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