LIY(St)CY-TP



Areas of Use

These double screened 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
1. Screen	Al-PET Foil
2. Screen	Tinned Copper Wire Braid
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
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	7.4	27	70
3x2x0.5	7.9	37	86
4x2x0.5	8.7	47	108
5x2x0.5	9.7	57	133
6x2x0.5	10.6	67	157

8x2x0.5	11.6	86	196
10x2x0.5	13.8	106	252
12x2x0.5	14.3	124	288
2x2x0.75	8.4	37	88
3x2x0.75	9.0	51	114
4x2x0.75	9.9	66	142
5x2x0.75	10.9	80	172
6x2x0.75	12.0	95	206
8x2x0.75	13.2	123	262
10x2x0.75	15.6	152	330
12x2x0.75	16.2	179	379
2x2x1	8.9	47	104
3x2x1	9.4	65	132
4x2x1	10.5	84	169
5x2x1	11.6	103	205
6x2x1	12.8	122	245
8x2x1	13.9	159	307
10x2x1	16.6	197	393
12x2x1	17.2	233	452
2x2x1.5	10.6	67	146
3x2x1.5	11.4	94	191
4x2x1.5	12.6	122	244
5x2x1.5	14.0	150	296
6x2x1.5	15.4	178	353
8x2x1.5	16.8	232	444
10x2x1.5	20.2	304	582
12x2x1.5	20.9	357	670

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