

LIY11Y



Applications

These cables with PUR outer sheath are resistant to weather conditions, solvents, oil and oil derivatives and have high mechanical resistance. They are used in industrial applications and in factories in critical points for signal transmission. They are used in electronic control systems of in communication sector, electronic circuits, measurement devices, machine design, office equipments, computer systems where a resistance to friction, impact and mechanical restraint on the edges is required. They can be used in wet or dry, open air applications for middle scale mechanical restraint.

Construction

Conductor	Stranded Electrolytic Annealed Copper (IEC 228 / VDE 0295 / HD 383 / BS 6360 Class 5)
Insulation	PVC (EN 50290-2 / HD 21.1.S4 / VDE 0281-T12), Color Code : DIN 47100
Lay-up	All cores as layers
Separator	PES Tape
Outer Sheath	PUR (HD 22.10.51 / VDE 0250 / 0282) Outer Sheath Color : RAL 7001 Grey

Reference Standards	VDE 0245
Flame Test	IEC 60332-1, VDE 0482-265-2-1
Oil Resistant	HD 22.10.S1 / VDE 0282-10
Hydrolysis Resistant	VDE 0282-10
Cold Resistant	HD 22.10.S1 / VDE 0282-10

Technical and Electrical Properties (20°C)

Operating Voltage	0.50 mm ² ...1.50 mm ²	300 V / 500 V
	2.50 mm ²	450 V / 750 V
Test Voltage	2500 V	
Insulation Resistance	Min. 200 M. Ohm x Km	
Current Carrying Capacity	See Technical Data Table 4	
Temperature Range	Fixed	-40 °C...+70 °C
	Flexible	-5 °C...+70 °C
Minimum Bending Radius	Fixed	7.5 x Cable Diameter
	Flexible	10 x Cable Diameter

Cross Section	Conductor Resistance (Max. Ω/Km)	Capacitance (Core/Core nF/Km)
0.50 mm ²	39.0	110
0.75 mm ²	26.0	110
1.00 mm ²	19.5	120
1.50 mm ²	13.3	120

PART NUMBER	NO. OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
0.50 mm²				
21000502	2x0.50	4.7	8.3	24
21000503	3x0.50	5.0	12.6	31
21000504	4x0.50	5.3	16.8	39
21000505	5x0.50	5.9	20.9	47
21000506	6x0.50	6.5	25.1	57
21000507	7x0.50	6.5	29.4	64
21000508	8x0.50	7.3	33.8	74
21000509	9x0.50	7.7	38.0	82
21000510	10x0.50	8.3	42.2	89
21000512	12x0.50	8.7	51.1	105
21000516	16x0.50	10.0	68.1	144
21000520	20x0.50	11.0	86.0	170
21000525	25x0.50	12.0	108.0	215

PART NUMBER	NO. OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
1.00 mm²				
21001002	2x1.00	5.6	16.6	37
21001003	3x1.00	6.0	24.8	49
21001004	4x1.00	6.6	33.1	64
21001005	5x1.00	7.2	41.6	78
21001006	6x1.00	7.9	50.1	93
21001007	7x1.00	7.9	58.5	104
21001008	8x1.00	8.6	66.9	119
21001009	9x1.00	9.5	75.6	137
21001010	10x1.00	10.2	84.3	156
21001012	12x1.00	10.5	102.2	181
21001014	14x1.00	11.3	119.2	210
21001016	16x1.00	12.1	136.2	236
21001018	18x1.00	12.7	154.0	264
21001020	20x1.00	13.6	171.9	295
21001025	25x1.00	15.0	214.9	355

PART NUMBER	NO. OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
1.50 mm²				
21001502	2x1.50	6.6	24.8	52
21001503	3x1.50	7.1	37.6	73
21001504	4x1.50	7.7	50.2	91
21001505	5x1.50	8.6	63.3	114
21001506	6x1.50	9.4	75.7	133
21001507	7x1.50	9.4	88.3	151
21001508	8x1.50	10.4	100.9	170
21001509	9x1.50	11.3	113.5	195
21001510	10x1.50	12.2	126.6	223
21001512	12x1.50	13.0	152.8	262
21001514	14x1.50	13.6	178.3	300
21001516	16x1.50	14.3	205.6	340
21001520	20x1.50	16.3	257.1	430
21001525	25x1.50	18.3	321.4	530

PART NUMBER	NO. OF CORES/ CROSS SECTION (mm ²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
2.50 mm²				
21002502	2x2.50	7.9	41.2	79
21002503	3x2.50	8.5	61.9	109
21002504	4x2.50	9.4	83.3	143
21002505	5x2.50	10.6	104.1	179