



Applications

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

Construction

Conductor	Stranded Electrolytic Annealed Copper (IEC 228 / VDE0295 / HD383 / BS 6360 Class 5, 0.34 mm ² : Column 3)
Insulation	PVC (EN 50290-2 / HD 21.1.S4 / VDE 0281-TI2), Color Code : DIN 47100
Lay-up	As pairs and each pair as layers
Separator	PES Tape
Screen	Tinned Copper Wire Braiding (70% Coverage) (EN 50288)
Outer Sheath	PVC (EN 50290-2 / HD 21.1.S4 / VDE 0281 TM1) Outer Sheath Color : RAL 7001 Grey

Reference Standards	VDE 0812, VDE 0814
Flame Test	IEC 60332-1, VDE 0482-265-2-1

Technical and Electrical Properties (20°C)

			Cross Section	Loop Resistance (Max. Ω/Km)	Capacitance (Core/Core nF/Km)	Capacitance (Core/Screen nF/Km)
Operating Voltage	0.14 mm ² ...0.25 mm ²	250 V	0.14 mm ²	276.0	80	120
	0.34 mm ² ...1.50 mm ²	300 V / 500 V	0.22 mm ²	170.0	100	150
	2.50 mm ²	450 V / 750 V	0.25 mm ²	155.6	100	150
Test Voltage	0.14 mm ² ...0.25 mm ²	1200 V	0.34 mm ²	112.0	100	150
	0.34 mm ² ...1.00 mm ²	1500 V	0.50 mm ²	78.0	110	170
	1.50 mm ²	2500 V	0.75 mm ²	52.0	110	170
Insulation Resistance	Min. 200 M.Ωm x Km		1.00 mm ²	39.0	120	180
Inductance	Approx. 0.65 mH / Km		1.50 mm ²	26.6	120	180
Current Carrying Capacity	See Technical Data Table 4					
Temperature Range	Fixed	-30 °C... + 70 °C				
	Flexible	-5 °C... + 70 °C				
Minimum Bending Radius	Fixed	7.5 x Cable Diameter				
	Flexible	15 x Cable Diameter				

* LSF type of LIYCY-TP cables can be produced as well.

PART NUMBER	NO. OF CORES/ CROSS SECTION (mm²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
0.14 mm²				
21300102	2x2x0.14	4.9	13.1	33
21300103	3x2x0.14	5.3	16.3	39
21300104	4x2x0.14	6.0	20.5	48
21300105	5x2x0.14	6.3	25.0	57
21300106	6x2x0.14	6.9	28.2	65
21300108	8x2x0.14	7.4	35.4	80
21300110	10x2x0.14	8.5	44.2	99
21300112	12x2x0.14	8.9	51.1	114

0.22 mm²				
21300202	2x2x0.22	5.2	16.3	36
21300203	3x2x0.22	5.7	22.5	48
21300204	4x2x0.22	6.5	28.3	58
21300205	5x2x0.22	6.8	35.0	71
21300206	6x2x0.22	7.5	41.0	82
21300208	8x2x0.22	8.1	49.4	98
21300210	10x2x0.22	9.4	61.1	120
21300212	12x2x0.22	9.7	72.5	140

0.25 mm²				
21300302	2x2x0.25	5.4	17.7	38
21300303	3x2x0.25	5.9	24.0	50
21300304	4x2x0.25	6.7	30.4	63
21300305	5x2x0.25	7.0	36.2	73
21300306	6x2x0.25	7.7	43.4	78
21300308	8x2x0.25	8.5	58.0	106
21300310	10x2x0.25	9.8	70.0	135
21300312	12x2x0.25	10.2	81.0	155

0.34 mm²				
21300402	2x2x0.34	6.0	22.3	47
21300403	3x2x0.34	6.7	31.2	63
21300404	4x2x0.34	7.9	41.2	85
21300405	5x2x0.34	8.3	50.5	102
21300406	6x2x0.34	9.1	60.0	120
21300408	8x2x0.34	9.6	76.0	148
21300410	10x2x0.34	11.4	93.0	180
21300412	12x2x0.34	11.8	112.0	210

PART NUMBER	NO. OF CORES/ CROSS SECTION (mm²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
0.50 mm²				
21300502	2x2x0.50	6.7	28.5	59
21300503	3x2x0.50	7.7	39.8	82
21300504	4x2x0.50	8.8	52.5	107
21300505	5x2x0.50	9.2	62.5	121
21300506	6x2x0.50	10.1	73.1	143
21300508	8x2x0.50	11.0	92.0	184
21300510	10x2x0.50	12.8	117.8	225
21300512	12x2x0.50	14.0	138.1	266

0.75 mm²				
21300802	2x2x0.75	7.7	39.6	77
21300803	3x2x0.75	8.6	55.5	107
21300804	4x2x0.75	10.0	74.6	139
21300805	5x2x0.75	10.6	90.8	168
21300806	6x2x0.75	11.8	106.5	193
21300808	8x2x0.75	12.6	136.0	242
21300810	10x2x0.75	14.5	166.1	296
21300812	12x2x0.75	15.1	194.2	339

1.00 mm²				
21301002	2x2x1.00	8.3	49.9	91
21301003	3x2x1.00	9.3	74.0	129
21301004	4x2x1.00	10.8	96.5	167
21301005	5x2x1.00	11.4	117.0	200
21301006	6x2x1.00	12.5	136.4	231
21301008	8x2x1.00	13.3	173.9	288
21301010	10x2x1.00	15.4	220.4	359
21301012	12x2x1.00	16.0	254.2	417

1.50 mm²				
21301502	2x2x1.50	9.8	74.6	131
21301503	3x2x1.50	11.0	103.7	180
21301504	4x2x1.50	12.7	134.5	233
21301505	5x2x1.50	13.2	168.0	275
21301506	6x2x1.50	14.7	195.0	325
21301508	8x2x1.50	15.9	255.0	415
21301510	10x2x1.50	18.8	327.9	545
21301512	12x2x1.50	20.2	386.0	649