



Applications

These cables in which PVC is used as insulation material 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. They are used indoors.

Construction

Conductor	Stranded Electrolytic Annealed Copper (IEC 228 / VDE 0295 / HD 383 / 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	All cores as layers
Separator	PES Tape
Outer Sheath	PVC (EN 50290-2 / HD 21.1.S4 / VDE 0281 TM1) Outer Sheath Color : RAL 7001 Grey

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

Technical and Electrical Properties (20°C)

Operating Voltage	0.14 mm ² ...0.25 mm ²	250 V
	0.34 mm ² ...1.50 mm ²	300 V / 500 V
	2.50 mm ²	450 V / 750 V
Test Voltage	0.14 mm ² ...0.25 mm ²	1200 V
	0.34 mm ² ...1.00 mm ²	1500 V
	1.50 mm ²	2500 V
Insulation Resistance	Min. 200 M.Ωm x Km	
Inductance	Approx. 0.65 mH / Km	
Current Carrying Capacity	See Technical Data Table 4	
Temperature Range	Fixed	-30 °C... +70 °C
	Flexible	-5 °C... +70 °C
Minimum Bending Radius	Fixed	7.5x Cable Diameter
	Flexible	15 x Cable Diameter

Cross Section	Conductor Resistance (Max. Ω/Km)	Capacitance (Core/Core nF/Km)
0.14 mm ²	138.0	80
0.22 mm ²	85.0	100
0.25 mm ²	77.8	100
0.34 mm ²	56.0	100
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
2.50 mm ²	7.98	140

PART NUMBER	NO.OF CORES/ CROSS SECTION (mm²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
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0.14mm²

20100102	2x0.14	3.3	2.6	12
20100103	3x0.14	3.5	3.9	15
20100104	4x0.14	3.7	5.2	18
20100105	5x0.14	4.0	6.5	23
20100107	7x0.14	4.4	9.1	29
20100109	9x0.14	5.1	11.6	37
20100110	10x0.14	5.4	12.9	41
20100114	14x0.14	6.0	18.1	50
20100120	20x0.14	7.1	25.8	71
20100125	25x0.14	7.9	32.2	82

0.22 mm²

20100202	2x0.22	3.6	4.0	15
20100203	3x0.22	3.8	6.0	19
20100204	4x0.22	4.1	8.0	24
20100205	5x0.22	4.4	10.1	28
20100206	6x0.22	5.0	12.2	34
20100207	7x0.22	5.0	14.2	37
20100209	9x0.22	5.7	18.4	46
20100210	10x0.22	6.2	20.5	53
20100216	16x0.22	7.2	33.1	76
20100220	20x0.22	7.9	41.7	94
20100225	25x0.22	9.0	52.1	117

0.25 mm²

20100302	2x0.25	3.7	4.6	16
20100303	3x0.25	4.0	6.8	21
20100304	4x0.25	4.3	9.1	26
20100305	5x0.25	4.7	11.4	32
20100306	6x0.25	5.2	13.7	37
20100307	7x0.25	5.2	16.0	42
20100309	9x0.25	6.0	20.6	52
20100310	10x0.25	6.4	22.8	58
20100316	16x0.25	7.6	37.0	86
20100320	20x0.25	8.5	46.9	105
20100325	25x0.25	9.5	57.2	126

PART NUMBER	NO.OF CORES/ CROSS SECTION (mm²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
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0.34 mm²

20100402	2x0.34	4.2	6.3	20
20100403	3x0.34	4.5	9.5	27
20100404	4x0.34	4.9	12.7	34
20100405	5x0.34	5.4	15.8	40
20100406	6x0.34	5.9	19.0	48
20100407	7x0.34	5.9	22.2	53
20100408	8x0.34	6.3	25.3	61
20100409	9x0.34	6.9	28.7	69
20100410	10x0.34	7.4	32.0	76
20100416	16x0.34	8.6	51.6	110
20100420	20x0.34	9.5	64.7	138
20100425	25x0.34	10.7	81.0	174

0.50 mm²

20100502	2x0.50	4.7	8.3	26
20100503	3x0.50	5.0	12.6	33
20100504	4x0.50	5.3	16.8	41
20100505	5x0.50	5.9	20.9	50
20100506	6x0.50	6.5	25.1	60
20100507	7x0.50	6.5	29.4	67
20100508	8x0.50	7.3	33.8	77
20100509	9x0.50	7.7	38.0	85
20100510	10x0.50	8.3	42.2	93
20100512	12x0.50	8.7	51.1	110
20100516	16x0.50	10.0	68.1	150
20100520	20x0.50	11.0	86.0	176
20100525	25x0.50	12.0	108.0	223

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PART NUMBER	NO. OF CORES/ CROSS SECTION (mm²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
0.75 mm²				
20100802	2x0.75	5.1	12.4	31
20100803	3x0.75	5.5	18.6	42
20100804	4x0.75	6.0	25.2	54
20100805	5x0.75	6.6	31.5	64
20100806	6x0.75	7.3	37.6	78
20100807	7x0.75	7.3	44.3	87
20100808	8x0.75	8.0	50.6	99
20100809	9x0.75	8.8	57.0	116
20100810	10x0.75	9.5	63.5	129
20100812	12x0.75	9.9	76.6	150
20100814	14x0.75	10.5	89.5	175
20100816	16x0.75	11.1	102.4	195
20100818	18x0.75	11.7	115.3	215
20100820	20x0.75	12.5	128.4	237
20100825	25x0.75	14.0	161.2	305

1.00 mm²				
20101002	2x1.00	5.6	16.6	39
20101003	3x1.00	6.0	24.8	52
20101004	4x1.00	6.6	33.1	67
20101005	5x1.00	7.2	41.6	81
20101006	6x1.00	7.9	50.1	97
20101007	7x1.00	7.9	58.5	108
20101008	8x1.00	8.6	66.9	124
20101009	9x1.00	9.5	75.6	143
20101010	10x1.00	10.2	84.3	162
20101012	12x1.00	10.5	102.2	188
20101014	14x1.00	11.3	119.2	219
20101016	16x1.00	12.1	136.2	245
20101018	18x1.00	12.7	154.0	274
20101020	20x1.00	13.6	171.9	308
20101025	25x1.00	15.0	214.9	375

PART NUMBER	NO. OF CORES/ CROSS SECTION (mm²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
1.50 mm²				
20101502	2x1.50	6.6	24.8	55
20101503	3x1.50	7.1	37.6	76
20101504	4x1.50	7.7	50.2	95
20101505	5x1.50	8.6	63.3	119
20101506	6x1.50	9.4	75.7	139
20101507	7x1.50	9.4	88.3	158
20101508	8x1.50	10.4	100.9	178
20101509	9x1.50	11.3	113.5	204
20101510	10x1.50	12.2	126.6	233
20101512	12x1.50	13.0	152.8	277
20101514	14x1.50	13.6	178.3	316
20101516	16x1.50	14.3	205.6	360
20101520	20x1.50	16.3	257.1	451
20101525	25x1.50	18.3	321.4	560

2.50 mm²				
20102502	2x2.50	7.9	41.2	83
20102503	3x2.50	8.5	61.9	114
20102504	4x2.50	9.4	83.3	150
20102505	5x2.50	10.6	104.1	186