



Applications

These screened cables are used as signal transmission cables in the indoor applications. 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. These cables have HFFR material in their construction and they don't burn easily and the flames go off by themselves. They have low smoke intensity and they don't emit poisonous and corrosive gases. They are used in buildings where there are important goods or human population.

Construction

Conductor	Stranded Electrolytic Annealed Copper (IEC 228 / VDE 0295 / HD 383 / BS 6360 Class 5, 0.34 mm ² : Column 3)
Insulation	HFFR (EN 50290-2 / HD 624.6 S1 / VDE 0207-HI2), Color Code: DIN 47100
Lay-up	All cores as layers
Separator	PES Tape
Screen	Tinned Copper Wire Braiding (70% Coverage) (EN 50288)
Outer Sheath	HFFR (EN 50290-2 / HD 624.7 S1 / VDE 0207-HM 2) Outer Sheath Color: RAL 7001 Grey

Reference Standards	VDE 0812
Flame Test	IEC 60332-1, VDE 0482-265-2-1
Smoke Emission	IEC 61034-2 / EN 50268 (HD 606) / BS 7622
Corrosive Gas Measurement	IEC 60754-2 / EN 50267 (HD 602)

Technical and Electrical Properties (20°C)

			Cross Section	Conductor 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	138.0	80	120
	0.34 mm ² ...1.50 mm ²	300 V / 500 V	0.14 mm ²	85.0	100	150
	2.50 mm ²	450 V / 750 V	0.22 mm ²	77.8	100	150
Test Voltage	0.14 mm ² ...0.25 mm ²	1200 V	0.25 mm ²	56.0	100	150
	0.34 mm ² ...1.00 mm ²	1500 V	0.34 mm ²	39.0	110	170
	1.50 mm ²	2500 V	0.75 mm ²	26.0	120	180
Insulation Resistance	Min. 200 M.Ωm x Km		1.00 mm ²	19.5	120	180
Inductance	Approx. 0.65 mH / Km		1.50 mm ²	13.3	120	180
Current Carrying Capacity	See Technical Data Table 4		2.50 mm ²	7.98	140	240
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				

PART NUMBER	NO.OF CORES/ CROSS SECTION (mm²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
0.14 mm²				
21400102	2x0.14	3.8	7.6	21
21400103	3x0.14	4.0	10.2	26
21400104	4x0.14	4.2	11.8	29
21400105	5x0.14	4.6	13.3	32
21400106	6x0.14	5.1	15.3	39
21400107	7x0.14	5.1	17.0	41
21400108	8x0.14	5.3	19.5	45
21400109	9x0.14	5.7	22.1	50
21400110	10x0.14	6.1	24.2	55
21400112	12x0.14	6.3	27.5	61
21400114	14x0.14	6.6	30.6	69
21400116	16x0.14	7.0	33.7	77
21400118	18x0.14	7.3	37.3	85
21400120	20x0.14	7.7	42.8	94
21400125	25x0.14	8.4	53.7	113
0.22 mm²				
21400202	2x0.22	4.0	10.1	24
21400203	3x0.22	4.2	12.7	30
21400204	4x0.22	4.5	15.3	35
21400205	5x0.22	4.8	18.0	42
21400206	6x0.22	5.4	20.4	48
21400207	7x0.22	5.4	22.4	51
21400208	8x0.22	5.7	25.7	55
21400209	9x0.22	6.2	29.0	62
21400210	10x0.22	6.7	34.1	70
21400212	12x0.22	7.0	38.3	79
21400214	14x0.22	7.5	43.5	88
21400216	16x0.22	7.8	48.8	98
21400218	18x0.22	8.2	54.1	109
21400220	20x0.22	8.5	58.8	120
21400225	25x0.22	9.6	76.6	151
0.25 mm²				
21400302	2x0.25	4.3	11.0	26
21400303	3x0.25	4.5	13.9	31
21400304	4x0.25	4.8	16.8	36
21400305	5x0.25	5.1	20.0	42
21400306	6x0.25	5.6	23.1	48
21400307	7x0.25	5.6	25.5	52
21400308	8x0.25	6.4	28.5	58

PART NUMBER	NO.OF CORES/ CROSS SECTION (mm²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
21400309	9x0.25	6.6	31.5	63
21400310	10x0.25	6.9	34.7	68
21400312	12x0.25	7.2	41.4	80
21400314	14x0.25	7.5	48.2	92
21400316	16x0.25	8.1	57.0	113
21400318	18x0.25	8.5	64.5	119
21400320	20x0.25	9.0	70.0	130
21400325	25x0.25	10.1	82.4	158
0.34 mm²				
21400402	2x0.34	4.6	13.7	31
21400403	3x0.34	4.9	17.1	38
21400404	4x0.34	5.4	21.5	47
21400405	5x0.34	5.8	25.1	55
21400406	6x0.34	6.3	29.5	63
21400407	7x0.34	6.3	32.8	69
21400408	8x0.34	6.8	37.2	77
21400409	9x0.34	7.3	42.8	86
21400410	10x0.34	7.9	48.9	96
21400412	12x0.34	8.4	58.5	114
21400414	14x0.34	8.7	66.5	129
21400416	16x0.34	9.3	74.1	144
21400418	18x0.34	9.8	83.0	161
21400420	20x0.34	10.3	90.7	176
21400425	25x0.34	11.4	110.0	211
0.50 mm²				
21400502	2x0.50	5.1	16.6	38
21400503	3x0.50	5.4	21.0	46
21400504	4x0.50	5.9	27.3	58
21400505	5x0.50	6.5	32.3	71
21400506	6x0.50	7.1	38.9	83
21400507	7x0.50	7.1	44.2	90
21400508	8x0.50	7.8	51.3	109
21400509	9x0.50	8.2	56.0	116
21400510	10x0.50	8.9	61.7	122
21400512	12x0.50	9.3	71.0	145
21400514	14x0.50	10.0	80.5	160
21400516	16x0.50	10.8	90.0	186
21400518	18x0.50	11.3	99.5	203
21400520	20x0.50	12.0	108.6	218
21400525	25x0.50	13.0	134.0	265

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

21400802	2x0.75	5.6	22.0	49
21400803	3x0.75	5.9	29.0	58
21400804	4x0.75	6.5	36.2	75
21400805	5x0.75	7.1	45.2	91
21400806	6x0.75	7.8	54.1	104
21400807	7x0.75	7.8	63.3	117
21400808	8x0.75	8.6	70.0	137
21400809	9x0.75	9.4	78.0	147
21400810	10x0.75	10.1	90.3	165
21400812	12x0.75	10.5	105.0	184
21400814	14x0.75	11.0	120.0	212
21400816	16x0.75	11.7	135.0	241
21400818	18x0.75	12.3	150.0	268
21400820	20x0.75	13.2	164.0	288
21400825	25x0.75	14.6	198.0	350

1.00 mm²

21401002	2x1.00	6.0	27.8	57
21401003	3x1.00	6.3	37.6	72
21401004	4x1.00	7.1	47.8	89
21401005	5x1.00	7.7	59.1	108
21401006	6x1.00	8.4	68.8	125
21401007	7x1.00	8.4	78.8	136
21401008	8x1.00	9.1	95.2	162
21401009	9x1.00	10.1	106.6	179
21401010	10x1.00	10.7	115.5	194
21401012	12x1.00	10.9	135.0	222
21401014	14x1.00	11.8	154.4	253
21401016	16x1.00	12.5	172.0	290
21401018	18x1.00	13.3	191.0	316
21401020	20x1.00	14.0	218.4	359
21401025	25x1.00	15.7	262.5	430

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

21401502	2x1.50	7.0	38.9	75
21401503	3x1.50	7.4	53.0	95
21401504	4x1.50	8.2	67.8	118
21401505	5x1.50	9.1	84.0	146
21401506	6x1.50	9.9	99.8	173
21401507	7x1.50	9.9	112.5	189
21401508	8x1.50	10.8	132.3	232
21401509	9x1.50	11.7	151.2	251
21401510	10x1.50	12.7	166.9	280
21401512	12x1.50	13.4	192.0	318
21401514	14x1.50	14.1	222.6	370
21401516	16x1.50	15.0	252.0	421
21401518	18x1.50	15.7	278.0	453
21401520	20x1.50	16.7	306.6	498
21401525	25x1.50	18.7	372.0	611

2.50 mm²

21402502	2x2.50	8.3	57.8	115
21402503	3x2.50	8.9	84.1	146
21402504	4x2.50	10.0	113.4	193
21402505	5x2.50	11.0	137.7	231
21402506	6x2.50	11.9	162.9	270
21402507	7x2.50	11.9	188.5	306
21402508	8x2.50	13.1	211.0	344
21402509	9x2.50	14.2	236.3	387
21402510	10x2.50	15.6	262.0	438
21402512	12x2.50	16.0	307.7	503
21402514	14x2.50	17.0	354.8	583
21402516	16x2.50	18.0	401.1	663
21402518	18x2.50	19.0	448.0	721
21402520	20x2.50	20.0	495.0	795