

Extra Flexible PVC Robotic Cable

Cable Application

Suitable for automated production processes where data transmission cables of high flexibility are required, also for use in drag chains and where the cable is exposed to fast and abrupt movements.

Technical Information

Conductor:	Super fine stranded plain copper
Insulation:	PVC core insulation, textile wrapping
Outer Sheath:	Grey PVC, RAL7001 as per VDE 0207
Stranding:	According to VDE0295, class 6, IEC 60228
Operating Voltage Rating:	300/500V
Temperature Range:	Flexing: -5°C to +70°C • Static: -40°C to +70°C
Bending Radius:	10 x Ø

Number of cores and mm ² per conductor	Outer diameter in mm maximum	Copper weight kg/km	Approximate weight kg/km
2 x 0.14	3.5	2.7	20
3 x 0.14	3.7	4.2	26
4 x 0.14	4.0	5.6	31
5 x 0.14	4.3	7.0	35
7 x 0.14	4.9	9.8	50
10 x 0.14	6.4	14.0	63
14 x 0.14	6.5	19.6	77
18 x 0.14	7.2	25.2	91
25 x 0.14	8.6	35.0	125
2 x 0.25	4.1	4.8	27
3 x 0.25	4.3	7.5	33
4 x 0.25	4.7	10.0	40
5 x 0.25	5.1	12.5	51
7 x 0.25	6.4	17.5	64
10 x 0.25	7.7	25.0	84
14 x 0.25	7.8	35.0	108
18 x 0.25	8.8	45.0	130
25 x 0.25	10.8	62.5	178
2 x 0.34	4.5	6.8	30
3 x 0.34	4.8	10.2	43
4 x 0.34	5.2	13.6	57
5 x 0.34	6.2	17.0	65
7 x 0.34	7.1	23.8	85
10 x 0.34	8.8	34.0	117
14 x 0.34	8.9	47.6	151
18 x 0.34	10.0	61.2	182
25 x 0.34	12.3	85.0	250

Number of cores and mm ² per conductor	Outer diameter in mm maximum	Approximate weight kg/km
2 x 0.5	5.8	40
3 G 0.5	6.2	48
4 G 0.5	6.8	58
5 G 0.5	7.3	67
7 G 0.5	8.5	88
12 G 0.5	10.0	136
18 G 0.5	12.0	195
25 G 0.5	14.9	274
30 G 0.5	14.9	312
34 G 0.5	16.3	359
50 G 0.5	19.2	515
61 G 0.5	21.0	624
2 X 0.75	6.2	49
3 G 0.75	6.7	60
4 G 0.75	7.3	73
5 G 0.75	7.9	86
7 G 0.75	9.4	117
12 G 0.75	11.2	181
16 G 0.75	12.6	234
18 G 0.75	13.3	259
25 G 0.75	15.9	363
26 G 0.75	15.9	374
30 G 0.75	16.5	416
2 x 1.0	6.6	58
3 G 1.0	7.1	72
4 G 1.0	7.8	88
5 G 1.0	8.5	104
7 G 1.0	10.1	142
12 G 1.0	12.0	221
14 G 1.0	12.9	258
16 G 1.0	13.6	287
18 G 1.0	14.5	324
25 G 1.0	17.8	445
26 G 1.0	17.8	459
34 G 1.0	19.6	595
41 G 1.0	21.2	712
50 G 1.0	22.9	854
54 G 1.0	26.2	1,097
2 x 1.5	7.3	74

Number of cores and mm ² per conductor	Outer diameter in mm maximum	Approximate weight kg/km
3 G 1.5	7.9	93
4 G 1.5	8.6	114
5 G 1.5	9.6	139
7 G 1.5	11.5	189
12 G 1.5	13.5	295
16 G 1.5	15.2	381
18 G 1.5	16.3	429
25 G 1.5	20.0	597
26 G 1.5	20.0	615
34 G 1.5	21.7	783
41 G 1.5	23.6	936
42 G 1.5	23.6	954
50 G 1.5	25.6	1134
52 G 1.5	25.6	1170
61 G 1.5	28.4	1372
3 G 2.5	9.5	145
4 G 2.5	10.5	179
5 G 2.5	11.8	218
7 G 2.5	14.2	303
12 G 2.5	16.7	473
14 G 2.5	17.9	548
3 G 4.0	11.2	214
4 G 4.0	12.3	266
5 G 4.0	13.7	325
4 G 6.0	14.5	396
5 G 6.0	16.2	484
4 G 10.0	18.3	644
5 G 10.0	20.3	785
4 G 16.0	21.2	922
5 G 16.0	23.7	1133
34 G 1.5	21.7	783
41 G 1.5	23.6	936
42 G 1.5	23.6	954
50 G 1.5	25.6	1,134
52 G 1.5	25.6	1,170
61 G 1.5	28.4	1,372
3 G 2.5	9.5	145
4 G 2.5	10.5	179
5 G 2.5	11.8	218

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7 G 2.5	14.2	303	4 G 6.0	14.5	396
12 G 2.5	16.7	473	5 G 6.0	16.2	484
12 G 2.5	16.7	473	4 G 10.0	18.3	644
14 G 2.5	17.9	548	5 G 10.0	20.3	785
3 G 4.0	11.2	214	4 G 16.0	21.2	922
4 G 4.0	12.3	266	5 G 16.0	23.7	1,133
5 G 4.0	13.7	325			