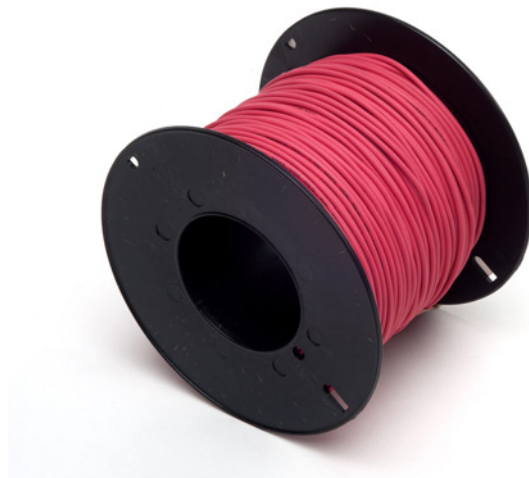


A connection cable with excellent thermal properties, easy to work with, suitable for tough environments.



Typical applications

Protected and fixed installation in electrical equipment. Especially well suited for the connection of motor windings, temperature sensors, conductors, magnets and transformers.

Properties

- Good resistance
- Flexible
- Good resistance to chemicals and ozone
- Easy to work with
- Easy to strip
- Solder resistant
- Self extinguishing
- Durable and resistant to wear
- Resistant to impregnating varnishes
- Excellent low and high thermal properties
- Weather resistant

Composition

- Tinned stranded copper conductors acc. EN60228 class 5
- Insulation made of extruded cross-linked polyolefin material

Colour

- 0.25 – 2.5 mm²: White, red, blue, green, brown, yellow, black
- 4.0 – 6.0 mm²: Red, blue, yellow, black
- ≥ 10 mm²: Black

Packaging

On rolls of 25–100 m

Technical data

- Temperatures: Working temp. -55°C - + 155°C, short period short circuit temp. +250°C, 24 h +220°C
- Voltage: $\geq 0,75$ mm² Operating voltage, Conductor to earth 600 VAC, Conductor to conductor 1000 VAC, Test voltage: 3500 VAC. $\leq 0,50$ mm² Operating voltage, Conductor to earth 450 VAC, Conductor to conductor 750 VAC, Test voltage: 2500 VAC
- Bending radius: Outer diameter ≤ 12 mm 3xD, > 12 mm 4xD
- Tensile strength: ≥ 15 N/mm²
- Elongation at break ≥ 300 %

AWG number	Ø (inch)	Ø (mm)	Ø (mm²)
6/0 = 000000	0.580	14.73	170.30
5/0 = 00000	0.517	13.12	135.10
4/0 = 0000	0.460	11.7	107.0
3/0 = 000	0.410	10.4	85.0
2/0 = 00	0.365	9.26	67.4
1/0 = 0	0.325	8.25	53.5
1	0.289	7.35	42.4
2	0.258	6.54	33.6
3	0.229	5.83	26.7
4	0.204	5.19	21.1
5	0.182	4.62	16.8
6	0.162	4.11	13.3
7	0.144	3.66	10.5
8	0.128	3.26	8.36
9	0.114	2.91	6.63
10	0.102	2.59	5.26
11	0.0907	2.30	4.17
12	0.0808	2.05	3.31
13	0.0720	1.83	2.62
14	0.0641	1.63	2.08
15	0.0571	1.45	1.65
16	0.0508	1.29	1.31
17	0.0453	1.15	1.04
18	0.0403	1.02	0.823
19	0.0359	0.912	0.653
20	0.0320	0.812	0.518
21	0.0285	0.723	0.410
22	0.0253	0.644	0.326
23	0.0226	0.573	0.258
24	0.0201	0.511	0.205
25	0.0179	0.455	0.162
26	0.0159	0.405	0.129
27	0.0142	0.361	0.102
28	0.0126	0.321	0.0810
29	0.0113	0.286	0.0642
30	0.0100	0.255	0.0509
31	0.00893	0.227	0.0404
32	0.00795	0.202	0.0320
33	0.00708	0.180	0.0254
34	0.00631	0.160	0.0201
35	0.00562	0.143	0.0160
36	0.00500	0.127	0.0127
37	0.00445	0.113	0.0100
38	0.00397	0.101	0.00797
39	0.00353	0.0897	0.00632
40	0.00314	0.0799	0.00501

Area (mm ²)	Core Max Ø (mm)	Number wires x diam.	External diameter (mm)	Kg/100m ca	Max load A at 30°C	Bending radius min	Resistance at 20°C
0.25	0.6	19 x 0.13	1.45 ± 0.05	0.4	13	3 x diam.	86.0
0.50	0.9	19 x 0.18	1.7 ± 0.10	0.7	19	3 x diam.	40.1
0.75	1.15	24 x 0.20	2.2 ± 0.10	1.1	24	3 x diam.	26.7
1.0	1.3	32 x 0.20	2.6 ± 0.10	1.5	29	3 x diam.	20.0
1.5	1.55	30 x 0.25	2.7 ± 0.10	1.9	36	3 x diam.	13.7
2.5	2.05	50 x 0.25	3.35 ± 0.10	3.0	49	3 x diam.	8.21
4	2.6	56 x 0.30	4.05 ± 0.15	4.6	66	3 x diam.	5.09
6	3.4	81 x 0.30	5.2 ± 0.15	6.5	85	3 x diam.	3.39
10	4.4	78 x 0.40	6.4 ± 0.15	11.0	121	3 x diam.	1.95
16	5.4	119 x 0.40	7.6 ± 0.15	16.5	163	3 x diam.	1.24
25	6.7	182 x 0.40	9.2 ± 0.20	25.0	219	3 x diam.	0.795
35	7.0	259 x 0.40	10.6 ± 0.20	34.5	272	3 x diam.	0.565
50	9.4	378 x 0.40	12.3 ± 0.25	50.0	344	4 x diam.	0.393
70	11.5	336 x 0.50	14.6 ± 0.25	68.0	439	4 x diam.	0.277
95	12.9	444 x 0.50	16.3 ± 0.30	89.0	523	4 x diam.	0.210
120	14.8	551 x 0.50	18.4 ± 0.30	110.0	621	4 x diam.	0.164
150	17.0	722 x 0.50	20.8 ± 0.30	142.0	723	4 x diam.	0.132
185	18.5	874 x 0.50	22.5 ± 0.30	171.0	825	4 x diam.	0.108
240	21.3	1147 x 0.50	25.7 ± 0.30	225.0	996	4 x diam.	0.0817

Temperature classes of insulation materials according to EN 60085

IEC 60085	Old IEC 60085	NEMA Class	NEMA/UL	Max temp.
70				
90	Y			90°C
105	A	105	A	105°C
120	E			120°C
130	B	130	B	130°C
155	F	155	F	155°C
180	H	180	H	180°C
200			N	200°C
220		220	R	220°C
			S	240°C
250				250°C

How to contact BEVI

Contact details for all countries are continually updated on our website.
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