



## CONNECTION CABLE RADOX CLASS F 155°C

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

- Working temperature -55°C - +155°C
- Operating voltage 750 - 1000 VAC
- Good resistance to chemical and ozone
- High durability in contact with impregnating varnishes

## PRODUCT INFORMATION

**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

### Colours

0.25 – 2.5 mm<sup>2</sup> white, red, blue, green, brown, yellow, black  
4.0 – 6.0 mm<sup>2</sup> red, blue, yellow, black  
≥ 10 mm<sup>2</sup> 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: ≥0,75mm<sup>2</sup> Operating voltage. Conductor to earth 600 VAC, Conductor to conductor 1000 VAC, Test voltage: 3500 VAC ≤0,50mm<sup>2</sup> 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/mm<sup>2</sup>
- Elongation at break ≥300 %

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Item number	Area mm <sup>2</sup>	Core Max Ø in mm.	Number wires x diam.	External diameter mm	Kg/100 m ca	Max-load A at 30 °C	Bending radius min	Resistance at 20°C
02 010 002X	0.25	0.60	19 x 0.13	1,45 ± 0.05	0.4	13	3 x diam.	86.0
02 010 005X	0.50	0.9	19 x 0.18	1,7 ± 0.10	0.7	19	3 x diam.	40.1
02 010 007X	0.75	1.15	24 x 0.20	2,2 ± 0,10	1.1	24	3 x diam.	26.7
02 010 010X	1.0	1.3	32 x 0.20	2,6 ± 0.10	1.5	29	3 x diam.	20.0
02 010 015X	1.5	1.55	30 x 0.25	2,7 ± 0.10	1.9	36	3 x diam.	13.7
02 010 025X	2.5	2.05	50 x 0.25	3,35 ± 0.10	3.0	49	3 x diam.	8.21
02 010 040X	4	2.6	56 x 0.30	4,05 ± 0.15	4.6	66	3 x diam.	5.09
02 010 060X	6	3.4	81 x 0.30	5,2 ± 0.15	6.5	85	3 x diam.	3.39
02 010 1007	10	4.4	78 x 0.40	6,4 ± 0.15	11.0	121	3 x diam.	1.95
02 010 1607	16	5,4	119 x 0.40	7,6 ± 0.15	16.5	163	3 x diam.	1.24
02 010 2507	25	6.7	182 x 0.40	9,2 ± 0.20	25.0	219	3 x diam.	0.795
02 010 3507	35	7.0	259 x 0,40	10,6 ± 0.20	34.5	272	3 x diam.	0.565
02 010 5007	50	9.4	378 x 0.40	12,3 ± 0.25	50.0	344	4 x diam.	0.393
02 010 7007	70	11.5	336 x 0.50	14,6 ± 0.25	68.0	439	4 x diam.	0.277
02 010 9507	95	12.9	444 x 0.50	16,3 ± 0.30	89.0	523	4 x diam.	0.210
02 010 1207	120	14.8	551 x 0,50	18,4 ± 0.30	110.0	621	4 x diam.	0.164
02 010 1507	150	17.0	722 x 0.50	20,8 ± 0.30	142.0	723	4 x diam.	0.132
02 010 1857	185	18.5	874 x 0.50	22,5 ± 0.30	171.0	825	4 x diam.	0.108
02 010 2407	240	21.3	1147 x 0.50	25,7 ± 0.30	225.0	996	4 x diam.	0.0817

White=1, Red=2, Blue=3, Green=4, Brown=5, Yellow=6, Black=7  
 Replace letter 'X' in item number with colour code number.

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AWG Number	Ø [Inch]	Ø [mm]	Ø [mm <sup>2</sup> ]
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

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## 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

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