

TECHNICAL DATA

RADOX® 155
Flexible Single Core Cable

DESCRIPTON

Radox® 155 is a flexible single core cable consisting of stranded tinned copper conductor according to EN 60228 class 5, insulated with extruded and electron cross-linked polyolefin copolymer (XLPO).

APPLICATIONS

Radox® 155 finds use in protected and fixed installations in electrical equipment such as:

- Electric motors
- Magnets
- Switchgear
- All types of coils
- Transformers

TECHNICAL DATA

Voltage rating $U_0/U \leq 0.50\text{mm}^2$	450/750V AC
Test voltage $\leq 0.50\text{mm}^2$	2500V AC
Voltage rating $U_0/U, > 0.50\text{mm}^2$	600/100V AC
Test voltage $> 0.50\text{mm}^2$	3500V AC
Operating temperature range	-55 to +155°C
Colours	Various
RoHS 2002/95/EC Compliant	Yes

DIMENSIONS

Conductor Area CSA mm^2	Conductor Stranding mm	Conductor Diameter mm	Overall Diameter mm	R_{20} max.* Ω/km	Current** Rating amp (max)	Nominal Weight Kgs/100m	Bending Radius x Dia.
0.25	19/0.13	0.60	1.45	86.00	13	0.40	3
0.34	19/0.16	0.80	1.60	53.1	15	0.50	3
0.50	19/0.18	0.90	1.71	40.1	19	0.70	3
0.75	24/0.20	1.15	2.25	26.7	25	1.10	3
1.00	32/0.20	1.30	2.50	20.00	30	1.50	3
1.50	30/0.25	1.55	2.85	13.7	38	1.90	3
2.50	50/0.25	2.05	3.50	8.21	52	3.00	3
4.00	56/0.30	2.60	4.20	5.09	70	4.50	3
6.00	82/0.30	3.00	5.00	3.39	92	6.50	3
10.00	78/0.40	3.90	6.40	1.95	132	11.00	3
16.00	119/0.40	5.40	7.60	1.24	176	16.50	3
25.00	182/0.40	6.70	9.20	0.795	235	25.00	3
35.00	266/0.40	7.90	10.70	0.565	296	36.30	3
50.00	378/0.40	9.40	12.30	0.393	370	50	4
70.00	348/0.50	11.50	14.60	0.277	467	68	4
95.00	444/0.50	13.00	16.40	0.210	563	89	4
120.00	570/0.50	15.40	18.50	0.164	/	110	4
150.00	722/0.50	17.00	20.80	0.132	/	142	4
185.00	874/0.50	18.50	22.70	0.108	/	171	4
240.00	1147/0.50	21.30	26.10	0.0817	/	225	4

*IEC 60228 **IEC 60827 Single cable in free air with ambient temperature of 30°C

® Registered trademark

Statements, technical information and recommendations contained herein are based on tests we believe to be reliable but they are not to be construed in any manner as warranties expressed or implied. The user shall determine the suitability of the product for their intended use and the user assumes all risk and liability whatsoever in connection therewith.

CORRECTION FACTORS AT HIGHER TEMPERATURES

Ambient Temperature °C	Correction Factor
30	1.00
40	0.95
50	0.90
60	0.85
70	0.79
80	0.72
90	0.65
100	0.58
110	0.49
120	0.38
130	0.22

CORRECTION FACTOR FOR CABLE BUNDLES, IEC 60364-5-52

No. of Cores	Correction Factor
1	1.00
2	0.80
3	0.70
4	0.65
5	0.60
6	0.57
7	0.54
8	0.52
9	0.50
12	0.45
16	0.41
20	0.38