



Southern Distribution Centre
 Unit C1 & C2 Frogmore Industrial Estate
 Motherwell Way
 West Thurrock
 Essex, UK
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TRI-RATED

UL CSA BASEC 0.5mm to 240mm
 UL CSA BI-RATED 300mm to 500mm

Construction: UL Style 1015; UL758, UL File No.E344784, CSA C22.2, BS6231 Type CK, BS EN 50525-2-31, HD 21.7

Flame Propagation: VW-1; FT-1; FT-2, BS EN 60332-1-2

Low Voltage Directive: 2006/95/EC

RoHS Directive: 2011/65/EC

Description:

- Conductor: Plain copper wire, flexible class 5
- Insulation: HT-PVC
- Colour: black, blue, brown, grey, orange, pink, red, violet, white, yellow, green, green/yellow

Size		Approx. conductor Ø	Average insulation thickness	Max. external Ø	Max. electrical resistance at 20°C	Approx. cable weight	Current rating in air at 45°C
mm	AWG	mm	mm	mm	Ω/km	kg/km	A
0.5	22	0,9	0,8	2,6	39,0	11	11
0.75	20	1,1	0,8	2,8	26,0	14	14
1.0mm	18	1,3	0,8	2,9	19,5	16	17
1.5mm	16	1,5	0,8	3,2	13,3	21	21
2.5mm	14	2,0	0,8	3,6	7,98	30	30
4.0mm	12	2,5	0,8	4,2	4,95	45	40
6.0mm	10	3,0	0,8	4,8	3,30	64	55
10mm	8	4,0	1,14	6,3	1,91	110	75
16mm	6	5,0	1,52	8,0	1,21	175	100
25mm	4	6,2	1,52	9,2	0,78	260	140
35mm	2	7,5	1,52	10,7	0,5335	370	170
50mm	1	8,9	2,03	13,0	0,3860	520	205
70mm	2/0	10,8	2,03	14,9	0,2660	740	260
95mm	3/0	12,2	2,03	16,4	0,2060	920	320
120mm	4/0	13,8	2,03	18,0	0,1610	1145	375
150mm	250 MCM	15,5	2,41	20,4	0,1290	1460	420
185mm	350 MCM	18,3	2,41	23,2	0,1011	1845	480
240mm	450 MCM	20,0	2,41	24,9	0,07867	2335	595
300mm	550 MCM	22,6	2,79	28,2	0,06436	2885	675
400mm	700 MCM	25,5	2,79	31,1	0,04860	3735	810
500mm	900 MCM	28,5	2,79	34,1	0,03840	4730	930



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Functional characteristics:

- Rated voltage: 600 V a.c. - 750 V d.c. (UL - CSA)
- Uo/U 600/1000 V a.c. - 1000 V d.c. to ground (BS)
- Uo/U 450/750 V a.c. - 675 V d.c. to ground (HD)
- Max. operating temperature: 105°C (UL - CSA) 90 °C (BS - HD)
- Min. operating temperature: -15°C (without mechanical shocks)
- Max. short circuit temperature: 160°C

Special features

- Good endurance properties, good abrasion resistance, easy stripping.
- Thermal endurance properties (temperature index TI): 110°C referring to 20.000 hours (CEI EN 60216-1)

Installation Conditions:

- Minimum installation temperature: 5°C
- Recommended minimum bending radius: 6 times the cable diameter
- Recommended maximum tensile stress: 50 N/mm² of the cross-section of the copper

Use and Installation Method:

- High temperature cables designed for use on internal wiring appliances and for the wiring of switch, control and instruments panels of power switchgear.
- Also used as connection of cable for motors and transformers.