

Tri-Rated Flexible PVC Wires

Single Core, Flexible, Unshielded



SHEATH COLOURS:



APPLICATION:

High temperature, flame retardant cable designed for use in the switch control, relay and instrumentation panels of power switchgear and for purposes such as internal connectors in rectifier equipment, motor starters and controllers. Tri-rated cable is sometimes referred to as BS 6231 cable, H07V2-K or panel wire

SPECIFICATION:

Wire Code	H05V2-K, H07V2-K
Cable type	Stranded
Shielding	unshielded
Conductor	Class 5 flexible copper conductor
Conductor insulation	PVC (Polyvinyl Chloride) Type T13
Packaging	Sold by reel
Original Packaging	100 m
Rated voltage	600 V
Test voltage	1000 V
Standards	UL1015, BS EN 50525-2-31 BS 6231 Type CK, BS EN/IEC 60332, BS EN 60228, UL Subj.758, CSA C22.2 No.210 (HD 21.7 S2)
Temperature range	-15...+105 °C
Minimum bending radius	6 x Overall Diameter

ELECTRICAL CHARACTERISTICS:

Nominal Cross Sectional Area mm ²	Maximum Diameter of Wires in Conductor mm	Maximum Resistance of Conductor at 20°C Plain Wires ohms/km	Current Rating (Peak) Amps	Voltage Drop mV/A/m
0.5	0.21	39	11	46
0.75	0.21	26	14	31
1	0.21	19.5	17	22
1.5	0.26	13.3	21	15
2.5	0.26	7.98	30	9.1
4	0.31	4.95	41	5.7
6	0.31	3.3	53	3.8

DE-RATING FACTORS:

Ambient Temperature	45°C	50°C	55°C	60°C	65°C	70°C	75°C
De-Rating Factor	1.00	0.97	0.90	0.82	0.73	0.63	0.52

PRODUCT RANGE:

Art. Nr.	Colour	Cross-section	Cross-section AWG	Overall Diameter	∅ insulation
RND 475-00532	black	0.50 mm ²	21 AWG	2.7 mm	0.8 mm
RND 475-00533	black	0.75 mm ²	19 AWG	2.85 mm	0.8 mm
RND 475-00534	black	1.00 mm ²	17 AWG	3 mm	0.8 mm
RND 475-00535	black	1.50 mm ²	16 AWG	3.3 mm	0.8 mm
RND 475-00536	black	2.50 mm ²	14 AWG	3.75 mm	0.8 mm
RND 475-00537	black	4.00 mm ²	12 AWG	4.35 mm	0.8 mm
RND 475-00538	black	6.00 mm ²	10 AWG	4.85 mm	0.8 mm
RND 475-00539	blue	0.50 mm ²	21 AWG	2.7 mm	0.8 mm
RND 475-00540	blue	0.75 mm ²	19 AWG	2.85 mm	0.8 mm
RND 475-00541	blue	1.00 mm ²	17 AWG	3 mm	0.8 mm
RND 475-00542	blue	1.50 mm ²	16 AWG	3.3 mm	0.8 mm
RND 475-00543	blue	2.50 mm ²	14 AWG	3.75 mm	0.8 mm
RND 475-00544	blue	4.00 mm ²	12 AWG	4.35 mm	0.8 mm
RND 475-00545	blue	6.00 mm ²	10 AWG	4.85 mm	0.8 mm
RND 475-00546	brown	0.50 mm ²	21 AWG	2.7 mm	0.8 mm
RND 475-00547	brown	0.75 mm ²	19 AWG	2.85 mm	0.8 mm
RND 475-00548	brown	1.00 mm ²	17 AWG	3 mm	0.8 mm
RND 475-00549	brown	1.50 mm ²	16 AWG	3.3 mm	0.8 mm
RND 475-00550	brown	2.50 mm ²	14 AWG	3.75 mm	0.8 mm
RND 475-00551	brown	4.00 mm ²	12 AWG	4.35 mm	0.8 mm
RND 475-00553	dark blue	0.50 mm ²	21 AWG	2.7 mm	0.8 mm
RND 475-00554	dark blue	0.75 mm ²	19 AWG	2.85 mm	0.8 mm
RND 475-00555	dark blue	1.00 mm ²	17 AWG	3 mm	0.8 mm
RND 475-00556	dark blue	1.50 mm ²	16 AWG	3.3 mm	0.8 mm
RND 475-00557	dark blue	2.50 mm ²	14 AWG	3.75 mm	0.8 mm
RND 475-00559	dark blue	6.00 mm ²	10 AWG	4.85 mm	0.8 mm
RND 475-00560	green	0.50 mm ²	21 AWG	2.7 mm	0.8 mm
RND 475-00561	green	0.75 mm ²	19 AWG	2.85 mm	0.8 mm
RND 475-00562	green	1.00 mm ²	17 AWG	3 mm	0.8 mm
RND 475-00563	green	1.50 mm ²	16 AWG	3.3 mm	0.8 mm
RND 475-00567	grey	0.50 mm ²	21 AWG	2.7 mm	0.8 mm
RND 475-00568	grey	0.75 mm ²	19 AWG	2.85 mm	0.8 mm
RND 475-00569	grey	1.00 mm ²	17 AWG	3 mm	0.8 mm
RND 475-00571	grey	1.50 mm ²	16 AWG	3.3 mm	0.8 mm
RND 475-00572	grey	2.50 mm ²	14 AWG	3.75 mm	0.8 mm
RND 475-00574	grey	6.00 mm ²	10 AWG	4.85 mm	0.8 mm
RND 475-00575	green/yellow	0.50 mm ²	21 AWG	2.7 mm	0.8 mm
RND 475-00576	green/yellow	0.75 mm ²	19 AWG	2.85 mm	0.8 mm
RND 475-00577	green/yellow	1.00 mm ²	17 AWG	3 mm	0.8 mm
RND 475-00578	green/yellow	1.50 mm ²	16 AWG	3.3 mm	0.8 mm
RND 475-00579	green/yellow	2.50 mm ²	14 AWG	3.75 mm	0.8 mm
RND 475-00580	green/yellow	4.00 mm ²	12 AWG	4.35 mm	0.8 mm
RND 475-00581	green/yellow	6.00 mm ²	10 AWG	4.85 mm	0.8 mm
RND 475-00582	light blue	0.50 mm ²	21 AWG	2.7 mm	0.8 mm
RND 475-00583	light blue	0.75 mm ²	19 AWG	2.85 mm	0.8 mm
RND 475-00584	light blue	1.00 mm ²	17 AWG	3 mm	0.8 mm
RND 475-00585	light blue	1.50 mm ²	16 AWG	3.3 mm	0.8 mm
RND 475-00586	light blue	2.50 mm ²	14 AWG	3.75 mm	0.8 mm
RND 475-00587	light blue	4.00 mm ²	12 AWG	4.35 mm	0.8 mm

Art. Nr.	Colour	Cross-section	Cross-section AWG	Overall Diameter	Ø insulation
RND 475-00589	orange	0.50 mm ²	21 AWG	2.7 mm	0.8 mm
RND 475-00590	orange	0.75 mm ²	19 AWG	2.85 mm	0.8 mm
RND 475-00591	orange	1.00 mm ²	17 AWG	3 mm	0.8 mm
RND 475-00592	orange	1.50 mm ²	16 AWG	3.3 mm	0.8 mm
RND 475-00593	orange	2.50 mm ²	14 AWG	3.75 mm	0.8 mm
RND 475-00596	pink	0.50 mm ²	21 AWG	2.7 mm	0.8 mm
RND 475-00597	pink	0.75 mm ²	19 AWG	2.85 mm	0.8 mm
RND 475-00601	pink	2.50 mm ²	14 AWG	3.75 mm	0.8 mm
RND 475-00604	red	0.50 mm ²	21 AWG	2.7 mm	0.8 mm
RND 475-00605	red	0.75 mm ²	19 AWG	2.85 mm	0.8 mm
RND 475-00606	red	1.00 mm ²	17 AWG	3 mm	0.8 mm
RND 475-00607	red	1.50 mm ²	16 AWG	3.3 mm	0.8 mm
RND 475-00608	red	2.50 mm ²	14 AWG	3.75 mm	0.8 mm
RND 475-00609	red	4.00 mm ²	12 AWG	4.35 mm	0.8 mm
RND 475-00610	red	6.00 mm ²	10 AWG	4.85 mm	0.8 mm
RND 475-00611	violet	0.50 mm ²	21 AWG	2.7 mm	0.8 mm
RND 475-00612	violet	0.75 mm ²	19 AWG	2.85 mm	0.8 mm
RND 475-00613	violet	1.00 mm ²	17 AWG	3 mm	0.8 mm
RND 475-00614	violet	1.50 mm ²	16 AWG	3.3 mm	0.8 mm
RND 475-00618	white	0.50 mm ²	21 AWG	2.7 mm	0.8 mm
RND 475-00619	white	0.75 mm ²	19 AWG	2.85 mm	0.8 mm
RND 475-00620	white	1.00 mm ²	17 AWG	3 mm	0.8 mm
RND 475-00621	white	1.50 mm ²	16 AWG	3.3 mm	0.8 mm
RND 475-00622	white	2.50 mm ²	14 AWG	3.75 mm	0.8 mm
RND 475-00623	white	4.00 mm ²	12 AWG	4.35 mm	0.8 mm
RND 475-00625	yellow	0.50 mm ²	21 AWG	2.7 mm	0.8 mm
RND 475-00626	yellow	0.75 mm ²	19 AWG	2.85 mm	0.8 mm
RND 475-00627	yellow	1.00 mm ²	17 AWG	3 mm	0.8 mm
RND 475-00628	yellow	1.50 mm ²	16 AWG	3.3 mm	0.8 mm
RND 475-00631	yellow	6.00 mm ²	10 AWG	4.85 mm	0.8 mm
RND 475-00845	brown	6.00 mm ²	10 AWG	4.85 mm	0.8 mm
RND 475-00846	dark blue	4.00 mm ²	12 AWG	4.35 mm	0.8 mm
RND 475-00847	green	2.50 mm ²	14 AWG	3.75 mm	0.8 mm
RND 475-00848	green	4.00 mm ²	12 AWG	4.35 mm	0.8 mm
RND 475-00849	green	6.00 mm ²	10 AWG	4.85 mm	0.8 mm
RND 475-00850	grey	0.75 mm ²	19 AWG	2.85 mm	0.8 mm
RND 475-00851	grey	4.00 mm ²	12 AWG	4.35 mm	0.8 mm
RND 475-00852	light blue	6.00 mm ²	10 AWG	4.85 mm	0.8 mm
RND 475-00853	orange	4.00 mm ²	12 AWG	4.35 mm	0.8 mm
RND 475-00854	orange	6.00 mm ²	10 AWG	4.85 mm	0.8 mm
RND 475-00855	pink	1.00 mm ²	17 AWG	3 mm	0.8 mm
RND 475-00856	pink	1.50 mm ²	16 AWG	3.3 mm	0.8 mm
RND 475-00857	pink	4.00 mm ²	12 AWG	4.35 mm	0.8 mm
RND 475-00858	pink	6.00 mm ²	10 AWG	4.85 mm	0.8 mm
RND 475-00859	violet	2.50 mm ²	14 AWG	3.75 mm	0.8 mm
RND 475-00860	violet	4.00 mm ²	12 AWG	4.35 mm	0.8 mm
RND 475-00861	violet	6.00 mm ²	10 AWG	4.85 mm	0.8 mm
RND 475-00862	white	6.00 mm ²	10 AWG	4.85 mm	0.8 mm
RND 475-00863	yellow	2.50 mm ²	14 AWG	3.75 mm	0.8 mm
RND 475-00864	yellow	4.00 mm ²	12 AWG	4.35 mm	0.8 mm