



Range datasheet

ENGLISH

RS Pro Tri-rated Cable



Product details:

Application –

High temperature, flame retardant cable designed for use in switch control, relay and instrumentation panels for power, switchgear and for purpose such as internal connectors in equipment, motor starters and controllers.

Insulation Colour –

Black, Red, Blue, Yellow, Violet, Green/Yellow, Green, Pink, Grey, Brown, Orange, White, Light blue

Standards –

BS6231 Type CK, UL Subj. 758 CSA c.22.2 No. 127

Conductor –

Class 5 flexible plain copper conductor to BS EN 60228:2005 (previously BS6360)

Insulation –

PVC

Voltage Rating –

BS6231 : 600/1000V

UL, CSA : 600V

Temperature Rating –

BS6231 : 90 °C/105°C for 15,000 hours UL 1015 CSA : 105°C

Minimum Bending Radius -

6 x OD



Specifications:

RS Stock no.	Sheath Colour	No of Cores x Nominal Cross Section (mm ²)	AWG	Nominal Thickness of Insulation (mm)	Nominal Overall Diameter (mm)	Nominal Weight (kg/Km)	Maximum Diameter of Wires in Conductor (mm)	Maximum Resistance of Conductor at 20°C Plain Wires (ohms/km)	Current Rating (Amps)	Voltage Drop (mV/A/m)
803-4092	Brown	1 x 0.50	22	0.80	2.55	12	0.21	39.0	11	46
803-4095	Black	1 x 0.50	22	0.80	2.55	12	0.21	39.0	11	46
803-4098	Mid-Blue	1 x 0.50	22	0.80	2.55	12	0.21	39.0	11	46
803-4102	Purple	1 x 0.50	22	0.80	2.55	12	0.21	39.0	11	46
803-4105	Red	1 x 0.50	22	0.80	2.55	12	0.21	39.0	11	46
803-4109	Orange	1 x 0.50	22	0.80	2.55	12	0.21	39.0	11	46
803-4111	Grey	1 x 0.50	22	0.80	2.55	12	0.21	39.0	11	46
803-4115	Yellow	1 x 0.50	22	0.80	2.55	12	0.21	39.0	11	46
803-4118	White	1 x 0.50	22	0.80	2.55	12	0.21	39.0	11	46
803-4121	Light Blue	1 x 0.50	22	0.80	2.55	12	0.21	39.0	11	46
803-4124	Green/ Yellow	1 x 0.50	22	0.80	2.55	12	0.21	39.0	11	46
803-4127	Pink	1 x 0.50	22	0.80	2.55	12	0.21	39.0	11	46



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803-4130	Black	1 x 0.75	20	0.80	2.75	15	0.21	26.00	14	31
803-4133	Black	1 x 0.75	20	0.80	2.75	15	0.21	26.00	14	31
803-4317	Brown	1 x 0.75	20	0.80	2.75	15	0.21	26.00	14	31
803-4143	Grey	1 x 0.75	20	0.80	2.75	15	0.21	26.00	14	31
803-4146	Purple	1 x 0.75	20	0.80	2.75	15	0.21	26.00	14	31
803-4149	Red	1 x 0.75	20	0.80	2.75	15	0.21	26.00	14	31
803-4152	White	1 x 0.75	20	0.80	2.75	15	0.21	26.00	14	31
803-4155	Pink	1 x 0.75	20	0.80	2.75	15	0.21	26.00	14	31
803-4159	Green/ Yellow	1 x 0.75	20	0.80	2.75	15	0.21	26.00	14	31
803-4161	Orange	1 x 0.75	20	0.80	2.75	15	0.21	26.00	14	31
803-4165	Light Blue	1 x 0.75	20	0.80	2.75	15	0.21	26.00	14	31
803-4168	Yellow	1 x 0.75	20	0.80	2.75	15	0.21	26.00	14	31



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803-4171	Brown	1 x 1.0	18	0.80	2.90	18	0.21	19.5	17	22
803-4174	Green/ Yellow	1 x 1.0	18	0.80	2.90	18	0.21	19.5	17	22
803-4177	Black	1 x 1.0	18	0.80	2.90	18	0.21	19.5	17	22
803-4180	White	1 x 1.0	18	0.80	2.90	18	0.21	19.5	17	22
803-4183	Red	1 x 1.0	18	0.80	2.90	18	0.21	19.5	17	22
803-4187	Yellow	1 x 1.0	18	0.80	2.90	18	0.21	19.5	17	22
803-4193	Orange	1 x 1.0	18	0.80	2.90	18	0.21	19.5	17	22
803-4196	Mid- Blue	1 x 1.0	18	0.80	2.90	18	0.21	19.5	17	22
803-4199	Black	1 x 1.0	18	0.80	2.90	18	0.21	19.5	17	22
803-4200	Light Blue	1 x 1.0	18	0.80	2.90	18	0.21	19.5	17	22
803-4203	Purple	1 x 1.0	18	0.80	2.90	18	0.21	19.5	17	22
803-4206	Pink	1 x 1.0	18	0.80	2.90	18	0.21	19.5	17	22



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803-4212	Pink	1 x 1.5	16	0.80	3.15	23	0.26	13.3	21	15
803-4216	Black	1 x 1.5	16	0.80	3.15	23	0.26	13.3	21	15
803-4219	Mid-Blue	1 x 1.5	16	0.80	3.15	23	0.26	13.3	21	15
803-4222	White	1 x 1.5	16	0.80	3.15	23	0.26	13.3	21	15
803-4225	Brown	1 x 1.5	16	0.80	3.15	23	0.26	13.3	21	15
803-4228	Red	1 x 1.5	16	0.80	3.15	23	0.26	13.3	21	15
803-4231	Yellow	1 x 1.5	16	0.80	3.15	23	0.26	13.3	21	15
803-4234	Orange	1 x 1.5	16	0.80	3.15	23	0.26	13.3	21	15
803-4238	Grey	1 x 1.5	16	0.80	3.15	23	0.26	13.3	21	15
803-4240	Light Blue	1 x 1.5	16	0.80	3.15	23	0.26	13.3	21	15
803-4244	White	1 x 2.5	14	0.80	3.60	34	0.26	7.98	30	9.10



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803-4247	Green/ Yellow	1 x 1.5	16	0.80	3.15	23	0.26	13.3	21	15
803-4250	Black	1 x 2.5	14	0.80	3.60	34	0.26	7.98	30	9.10
803-4253	Orange	1 x 2.5	14	0.80	3.60	34	0.26	7.98	30	9.10
803-4256	Mid-Blue	1 x 2.5	14	0.80	3.60	34	0.26	7.98	30	9.10
803-4262	Red	1 x 2.5	14	0.80	3.60	34	0.26	7.98	30	9.10
803-4266	Yellow	1 x 2.5	14	0.80	3.60	34	0.26	7.98	30	9.10
803-4269	Brown	1 x 2.5	14	0.80	3.60	34	0.26	7.98	30	9.10
803-4272	Purple	1 x 2.5	14	0.80	3.60	34	0.26	7.98	30	9.10
803-4275	Grey	1 x 2.5	14	0.80	3.60	34	0.26	7.98	30	9.10
803-4278	Green/ Yellow	1 x 2.5	14	0.80	3.60	34	0.26	7.98	30	9.10



Correction Factors –

Ambient Temperature	45°C	50°C	55°C	60°C	65°C	70°C	75°C
Reduction Factor	1.0	0.97	0.90	0.82	0.73	0.63	0.52

Where Cables are to be grouped, the following factors should be applied -

Number of cables in group	2	3	4	5	6	7	8
Reduction Factor	0.80	0.70	0.65	0.60	0.56	0.53	0.50