

BYA/BAYA or BYA-FR/BAYA-FR or BYA-FRLS/BAYA-FRLS

1 Core (Cu or Al/PVC)

PVC (Skin Coated) Insulated Non-sheathed Single Core Cable

APPLICATION

Suitable for surface mounted or concealed steel condition or trunking. Also suitable for field protected installation in and application up to 1000 V A.C up to 750V to earth D.C.

STANDARD

BS 6004
BDS IEC 60227-3
IEC 60332
IEC 61034

VOLTAGE GRADE

U₀/U : 450/750V

COLOR

Insulation 
(Red, Yellow, Blue, Black, Green, Yellow-Green)

CONSTRUCTION

Conductor: Circular/ Circular Compacted, Plain annealed copper or Aluminium, Class-2 to IEC 60228

Insulation:

PVC (Skin Coated), T11 to BS 7655
PVC-FR (Skin Coated), T11-FR to BS 7655
PVC-FRLS (Skin Coated), T11-FRLS to BS 7655



PHYSICAL DATA					ELECTRICAL DATA							
Nominal cross sectional area of conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Overall Diameter		Approx. weight of cable		Max. D.C resistance of conductor at 20 °C		Current rating in conduits at 35 °C		Current rating in air at 35 °C	
			Lower limit	Upper limit								
			Cu	Al	ohm/km	ohm/km	amps	amps	amps	amps		
Core x mm ²	nos./mm	mm	mm	mm	kg/km	kg/km	ohm/km	ohm/km	amps	amps	amps	amps
1 x 25 rm	7/2.14	1.2	8.1	9.7	276	116	0.727	1.20	91	60	110	72
1 x 25 rm	19/1.30	1.2	8.2	9.9	278	118	0.727	1.20	91	60	110	72
1 x 35 rm	min. 6	1.2	9.0	10.9	373	153	0.524	0.868	112	73	136	88
1 x 50 rm	min. 6	1.4	10.8	12.8	532	216	0.387	0.641	136	88	164	107
1 x 70 rm	min. 12	1.4	12.1	14.6	732	285	0.268	0.443	173	112	207	137
1 x 95 rm	min. 15	1.6	14.1	17.1	985	382	0.193	0.320	216	140	253	165
1 x 120 rm	min. 18/15	1.6	15.6	18.8	1227	470	0.153	0.253	244	158	291	188
1 x 150 rm	min. 18/15	1.8	17.3	20.9	1535	572	0.124	0.206	-	-	333	217
1 x 185 rm	min. 30	2.0	19.3	23.3	1891	705	0.0991	0.164	-	-	381	248
1 x 240 rm	min. 34/30	2.2	22.0	26.2	2458	910	0.0754	0.125	-	-	452	295
1 x 300 rm	min. 34/30	2.4	24.5	29.6	3055	1125	0.0601	0.100	-	-	526	342
1 x 400 rm	min. 53	2.6	27.5	33.2	4078	1505	0.0470	0.0778	-	-	639	416
1 x 500 rm	min. 53	2.8	30.5	36.9	5048	1865	0.0366	0.0605	-	-	752	489
1 x 630 rm	min. 53	2.8	34.0	41.1	6363	2310	0.0283	0.0469	-	-	855	556

Current ratings are valid for cables laid under defined conditions at page no.163. For current ratings at deviated conditions, apply correction factor as given on page no.

Characteristics



Installation condition

