

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 : 300/500V & 450/750V

COLOR

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

CONSTRUCTION

Conductor: Solid/ Circular, Plain annealed copper or Aluminium, Class-1 & 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	kg/km	kg/km	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 0.5 re	1/0.80	0.6	1.9	2.3	10	7	36.0	-	8	-	11	-
1 x 0.75 re	1/0.98	0.6	2.1	2.5	13	8	24.5	-	10	-	13	-
1 x 1.0 re	1/1.13	0.7	2.5	3.0	16	9	18.1	-	13	-	16	-
1 x 1.0 rm	3/0.65	0.7	2.5	3.0	17	10	18.1	-	13	-	16	-
1 x 1.3 rm	3/0.74	0.7	2.6	3.2	20	12	14.03	22.95	15	10	19	12
1 x 1.5 re	1/1.38	0.7	2.6	3.2	22	12	12.1	18.1	16	11	20	13
1 x 1.5 rm	7/0.52	0.7	2.7	3.3	23	13	12.1	18.1	16	11	20	13
1 x 1.5 rm	3/0.8	0.7	2.7	3.3	23	13	12.1	18.1	16	11	20	13
1 x 2.0 rm	3/0.91	0.8	3.1	3.8	30	17	9.11	15.18	20	13	25	15
1 x 2.5 re	1/1.78	0.8	3.2	3.9	32	17	7.41	12.1	22	15	28	18
1 x 2.5 rm	7/0.67	0.8	3.3	4.0	33	19	7.41	12.1	22	15	28	18
1 x 3.0 rm	7/0.74	0.8	3.5	4.3	40	21	5.99	9.84	26	17	31	20
1 x 4.0 rm	7/0.85	0.8	3.8	4.6	51	25	4.61	7.41	30	20	37	24
1 x 4.5 rm	7/0.91	0.8	3.9	4.7	56	28	3.89	6.51	32	21	39	25
1 x 6.0 rm	7/1.04	0.8	4.3	5.2	71	34	3.08	4.61	38	25	47	31
1 x 7.0 rm	7/1.12	1.0	4.5	5.8	85	41	2.61	4.29	42	27	51	33
1 x 9.5 rm	7/1.32	1.0	5.4	6.5	113	52	1.86	3.09	50	32	61	39
1 x 10 rm	7/1.35	1.0	5.6	6.7	117	53	1.83	3.08	52	34	63	41
1 x 14.5 rm	7/1.63	1.0	6.2	7.5	164	72	1.23	2.03	65	40	79	50
1 x 16 rm	7/1.70	1.0	6.4	7.8	179	77	1.15	1.91	70	45	85	55
1 x 16 rm	19/1.04	1.0	6.5	8.0	181	79	1.15	1.91	70	45	85	55

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

