

# BYFY/BAYFY or BYFY-FR/BAYFY-FR or BYFY-FRLS/BAYFY-FRLS

## 3 Core (Cu or Al/PVC/PVC)

### PVC (Skin coated) Insulated PVC Sheathed Three Core Flat Cable

#### APPLICATION

Suitable for fixed installations in dry or damp premises clipped direct to a surface or on a cable tray unenclosed and also for use in non-metallic conduit.

#### STANDARD

BS 6004  
IEC 60332 & IEC 61034

#### VOLTAGE GRADE

U<sub>0</sub>/U : 300/500V

#### COLOR

Insulated core ■ ■ ■ (Red, Yellow, Blue)  
Sheath ■ (Grey or Other Colors available on request)

#### CONSTRUCTION

**Conductor:** Solid/ Circular, Plain annealed copper or Aluminium, Class-1 & 2 to IEC 60228

**Insulation:** PVC (Skin coated), T11 to BS 7655

#### Sheath:

PVC, type 6 to BS 7655

PVC-FR, type 6-FR to BS 7655

PVC-FRLS, type 6-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		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	
		Insulation	Sheath	Lower limit	Upper limit	Cu	Al	Cu	Al	Cu	Al	Cu	Al
Core x mm <sup>2</sup>	nos./mm	mm	mm	mm	mm	kg/km	kg/km	ohm/km	ohm/km	amps	amps	amps	amps
3 x 1.0 re	1/1.13	0.6	0.9	4.0x8.4	4.7x9.8	78	-	18.1	-	11	-	12	-
3 x 1.0 rm	3/0.65	0.6	0.9	4.1x8.5	4.8x10.0	85	-	18.1	-	11	-	12	-
3 x 1.5 re	1/1.38	0.7	0.9	4.4x9.8	5.4x11.5	104	77	12.1	18.1	15	12	16	13
3 x 1.5 rm	7/0.52	0.7	0.9	4.5x10.0	5.5x11.6	111	82	12.1	18.1	15	12	16	13
3 x 2.5 re	1/1.78	0.8	0.9	5.2x11.5	6.2x13.5	152	106	7.41	12.1	20	16	22	17
3 x 2.5 rm	7/0.67	0.8	1.0	5.4x11.8	6.4x13.8	164	116	7.41	12.1	20	16	22	17
3 x 4.0 rm	7/0.85	0.8	1.1	5.8x13.5	7.4x16.5	232	157	4.61	7.41	33	24	30	25
3 x 6.0 rm	7/1.04	0.8	1.1	6.4x15.0	8.0x18.0	308	194	3.08	4.61	37	30	37	30
3 x 10 rm	7/1.35	1.0	1.2	7.8x19.0	9.6x22.5	480	290	1.83	3.08	48	35	48	35
3 x 16 rm	7/1.70	1.0	1.3	9.0x22.0	11.0x26.5	698	396	1.15	1.91	64	47	64	47

# BYFYE or BYFYE-FR or BYFYE-FRLS

## 2 Core (Cu/PVC/ECC/PVC)

### PVC (Skin coated) Insulated PVC Sheathed Two Core Flat Cable with ECC conductor

#### APPLICATION

Suitable for fixed installations in dry or damp premises clipped direct to a surface or on a cable tray unenclosed and also for use in non-metallic conduit.

#### STANDARD

BS 6004  
IEC 60332 & IEC 61034

#### VOLTAGE GRADE

U<sub>0</sub>/U : 300/500V

#### COLOR

Insulated core ■ ■ (Red, Black)  
Sheath ■ (Grey or Other Colors available on request)

#### CONSTRUCTION

**Conductor:** Solid/ Circular, Plain annealed copper, Class-1 & 2 to IEC 60228

**E.C.C Conductor:** Solid annealed copper, Class-1 & 2 to IEC 60228

**Insulation:** PVC (skin coated), T11 to BS 7655

#### Sheath:

PVC, type 6 to BS 7655

PVC-FR, type 6-FR to BS 7655

PVC-FRLS, type 6-FRLS to BS 7655



PHYSICAL DATA							ELECTRICAL DATA			
Nominal cross sectional area of conductor	No. of strands & diameter of wire	No. of strands & diameter of ECC wire	Nominal thickness of		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
			Insulation	Sheath	Lower limit	Upper limit				
Core x mm <sup>2</sup>	nos./mm	nos./mm	mm	mm	mm	mm	kg/km	ohm/km	amps	amps
2 x 1.0 re	1/1.13	1/1.13	0.6	0.9	4.0x7.2	4.7x8.6	68	18.1	13	15
2 x 1.5 re	1/1.38	1/1.13	0.7	0.9	4.4x8.2	5.4x9.6	85	12.1	16	18
2 x 2.5 re	1/1.78	1/1.13	0.8	1.0	5.2x9.8	6.2x11.5	119	7.41	22	26
2 x 4.0 rm	7/0.85	1/1.38	0.8	1.0	5.6x10.5	7.2x13.0	175	4.61	30	33
2 x 6.0 rm	7/1.04	1/1.78	0.8	1.1	6.4x12.5	8.0x15.0	245	3.08	37	43
2 x 10 rm	7/1.35	7/0.85	1.0	1.2	7.8x15.5	9.6x19.0	368	1.83	50	60
2 x 16 rm	7/1.70	7/1.04	1.0	1.3	9.0x18.0	11.0x22.5	536	1.15	66	80

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.