

BYM/BAYM or BYM-FR/BAYM-FR or BYM-FRLS/BAYM-FRLS

3 Core (Cu or Al/PVC/PVC)

PVC (Skin coated) Insulated PVC Sheathed Three Core 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
BDS IEC 60227-4
IEC 60332 & IEC 61043

VOLTAGE GRADE

U₀/U : 300/500V

COLOR

Insulated core ■ ■ ■ (Red, Yellow, Blue)

Sheath ■ (Grey or Other Colors available on request)

CONSTRUCTION

Conductor: Solid/ Circular/ Sector Shaped, Plain annealed Copper or Aluminium, Class-1 & 2 to IEC 60228

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

Inner Covering: PVC, TM1 to BS 7655

Sheath:

PVC, TM1 to BS 7655

PVC-FR, TM1-FR to BS 7655

PVC-FRLS, TM1-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 | kg/km | kg/km | ohm/km | ohm/km | amps | amps | amps | amps | | |
| Core x mm ² | 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 | 1.2 | 7.8 | 9.2 | 106 | - | 18.1 | - | 11 | - | 12 | - |
| 3 x 1.0 rm | 3/0.65 | 0.6 | 1.2 | 7.8 | 9.2 | 115 | - | 18.1 | - | 11 | - | 12 | - |
| 3 x 1.5 re | 1/1.38 | 0.7 | 1.2 | 8.8 | 10.5 | 139 | 115 | 12.1 | 18.1 | 15 | 10 | 16 | 11 |
| 3 x 1.5 rm | 7/0.52 | 0.7 | 1.2 | 9.2 | 10.8 | 142 | 117 | 12.1 | 18.1 | 15 | 10 | 16 | 11 |
| 3 x 1.5 rm | 3/0.80 | 0.7 | 1.2 | 9.2 | 10.8 | 142 | 118 | 12.1 | 18.1 | 15 | 10 | 16 | 11 |
| 3 x 2.5 re | 1/1.78 | 0.8 | 1.2 | 10.0 | 12.0 | 195 | 150 | 7.41 | 12.1 | 20 | 14 | 22 | 15 |
| 3 x 2.5 rm | 7/0.67 | 0.8 | 1.2 | 10.5 | 12.5 | 198 | 152 | 7.41 | 12.1 | 20 | 14 | 22 | 15 |
| 3 x 4.0 rm | 7/0.85 | 0.8 | 1.2 | 11.0 | 13.0 | 268 | 193 | 4.61 | 7.41 | 27 | 19 | 30 | 21 |
| 3 x 6.0 rm | 7/1.04 | 0.8 | 1.4 | 12.5 | 15.5 | 386 | 273 | 3.08 | 4.61 | 33 | 23 | 37 | 26 |
| 3 x 10 rm | 7/1.35 | 1.0 | 1.4 | 15.5 | 19.0 | 590 | 400 | 1.83 | 3.08 | 46 | 32 | 51 | 36 |
| 3 x 16 rm | 7/1.70 | 1.0 | 1.4 | 18.0 | 21.5 | 856 | 553 | 1.15 | 1.91 | 58 | 38 | 67 | 44 |
| 3 x 25 rm | 7/2.14 | 1.2 | 1.6 | 22.0 | 26.0 | 1272 | 794 | 0.727 | 1.20 | 66 | 43 | 77 | 50 |
| 3 x 35 sm | min 6 | 1.2 | 1.6 | 24.5 | 29.0 | 1685 | 1023 | 0.524 | 0.868 | 81 | 53 | 90 | 59 |

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

