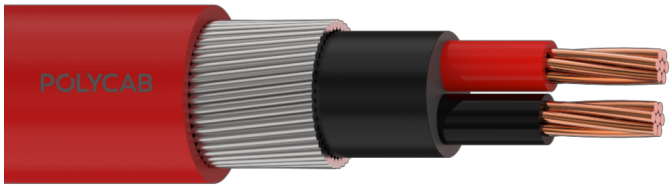
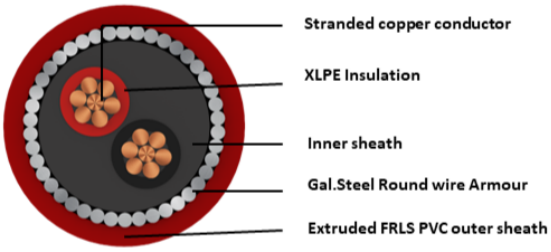
# POLYCAB FIRE ALARM ARMOURED CABLE
# 600/1000V FIRE PROTECTION FIRE ALARM ARMOURED CABLE




Images not to scale. Follow table for dimensions

## APPLICATION

POLYCAB Fire alarm cable stranded copper conductor, XLPE insulated, cores laid up, PVC Inner sheathed, GI wire armoured & FRLS PVC outer sheath twin cable is used for powering firefighting equipment's in hospital, schools, commercial complex & industries in fire security systems.

## CHARACTERISTICS

Voltage Rating
600/1000 V

**Operation Temperature**
Max.: 90°C

**Conductor temperature at short circuit**
Max.: 250°C

## CONSTRUCTION

- Stranded Class 2 Copper conductor as per EN 60228
- Insulated with XLPE type GP8 as per BS 7655-1.3
- Extruded inner sheath with PVC as per BS 5467
- Armoured with Galvanised Steel Round wire as per BS 5467
- Sheathed with Extruded FRLS PVC as per BS 5467

**Core Identification**
Red & Black
Blue, Brown ,Black & Red

**Outer sheath colour:** Red

**Bending Radius**
12 x Overall diameter

## OUTSTANDING FEATURES

- Flame Retardant
- Low Smoke
- Low Halogen

## STANDARD FOLLOWS

BS 5467
EN 60228
BS 7655-1.3
IEC 60332-1-2

## COMPLIANCE

Conductor resistance - EN 60228
Insulation resistance constant - BS 7655-1.3

## OUR ACCREDITATIONS

NABL

## APPROVAL

FQC CE

## NOTES

Black with red strip colour also available on request.

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POLYCAB
IDEAS. CONNECTED.

## Weight & Dimension data

| No.of core | Conductor cross sectional area (sqmm) | Dia over armour (mm) | Outer diameter (mm) | Weight (Approx.) Kg/KM |
|---|---|---|---|---|
| 2 | 1.5 | 7.33 | 9.81 | 188 |
| 2 | 2.5 | 8.56 | 11.20 | 241 |
| 4 | 1.5 | 8.34 | 10.82 | 243 |
| 4 | 2.5 | 9.82 | 12.46 | 327 |

The above data is approximate & subject to manufacturing tolerance.

## Electrical parameter

| Area of Conductor | Max. DC resistance of conductor at 20°C Plain wires | Insulation resistance constant (XLPE) | Dielectric strength for 1 minute (H.V Test) | Short Circuit rating of conductor for the duration of 1 sec |
|---|---|---|---|---|
| Sqmm | Ohm/km | MΩ.Km | kV | kA |
| 1.5 | 12.1 | 3.67 | 2 | 0.21 |
| 2.5 | 7.41 | 3.67 | 2 | 0.36 |

## Current Carrying capacities

**Ambient temperature: 30°C**

**Ground Ambient temperature: 20°C**

**Conductor operating temperature:90°C**

| Conductor cross sectional area | Reference method C (clipped direct) | | Reference method E (in free air or on a perforated cable tray etc, horizontal or vertical etc) | |
|---|---|---|---|---|
| | 1 two core cable single phase ac or dc | 1 three or 1 four core cable three phase ac | 1 two core cable single phase ac or dc | 1 three or four core cable three phase ac |
| Sqmm | A | A | A | A |
| 1.5 | 27 | 23 | 29 | 25 |
| 2.5 | 36 | 31 | 39 | 33 |

Current rating refers to table 4E4A of BS 7671