

### Cable - Instrumentation

**Cable Description: 3 X 0.75 MM2 FLEXIBLE CU PVC PVC TINNED COPPER BRAIDED PVC GREY :**

**300/500 V BS6004 : SHEATHING**

#### Design and Construction Data

|                                                 |                                  |                           |
|-------------------------------------------------|----------------------------------|---------------------------|
| Reference Manufacturing Standards               | IEC 60228, BS 6004 , BS EN 50525 |                           |
| Max. Permissible Continuous Conductor Temp      | °C                               | 70                        |
| Max. Conductor Short Circuit Temp for 5 Seconds | °C                               | 160                       |
| Rated Voltage ' Uo / U '                        | V                                | 300/500                   |
| Number of Conductors x Cross-Section            | mm <sup>2</sup>                  | 3x0.75                    |
| Conductor Material & Shape                      | mm                               | Copper & Flexible Class 5 |
| Wire Size                                       | mm                               | 0.21 (Max)                |
| Insulation Material                             |                                  | PVC                       |
| Insulation Nominal Thickness                    | mm                               | 0.60                      |
| Insulation Color                                |                                  | RED,YELLOW,BLUE           |
| Bedding Material                                |                                  | PVC                       |
| Bedding Nominal Thickness                       | mm                               | 0.70                      |
| Braided Material                                | mm                               | Tinned Copper             |
| Diameter of Screen Wire Max                     | mm                               | 0.16                      |
| Outer Sheath Material                           |                                  | PVC                       |
| Sheath Nominal Thickness                        | mm                               | 0.90                      |
| Colour of Outer Sheath                          |                                  | Grey                      |
| Approximate Cable Overall Diameter              | mm                               | 8.30-10.40                |

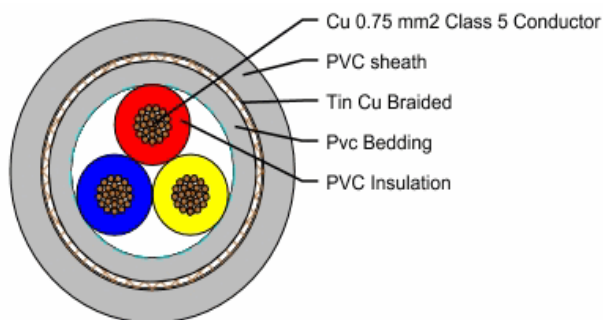
#### Electrical Data

|                                              |        |                                  |
|----------------------------------------------|--------|----------------------------------|
| Max Conductor DC resistance @ 20 °C          | ohm/km | 26.00                            |
| High Voltage Test at 1.5 kV for 5 min        |        | No Breakdown Shall Occur         |
| Min. Insulation Resistance Test @ 70 °C      | M.Ω.Km | 0.011                            |
| Current Carry Capacity                       |        |                                  |
| Laid in Free air @ 30 °C Ambient Temperature | Amp    |                                  |
| Conduit on wall or in Trunking               | Amp    | 6                                |
| The Cable shall meet all Test requirements   |        | IEC 60228, BS 6004 , BS EN 50525 |

#### Cable Marking

3X0.75mm<sup>2</sup> FLEXIBLE CU/PVC/PVC/SHIELDED/PVC ELECTRIC CABLE 300/500 V IEC 60228, BS 6004 FAST CABLES LTD Y.O.M

#### Cable Drawing



|                                                        |                  |            |
|--------------------------------------------------------|------------------|------------|
| 3 X 0.75 MM2 FLEXIBLE CU PVC PVC TINNED COPPER BRAIDED | Approx. Diameter |            |
| PVC GREY : 300/500 V BS6004 : SHEATHING                |                  |            |
| Flexible Copper Conductor with round shape             | mm               | 1.20       |
| Insulated                                              | mm               | 2.40       |
| Laid up cores                                          | mm               | 5.18       |
| Bedding                                                | mm               | 6.58       |
| Tinned Copper Braided                                  | mm               | 7.22       |
| PVC-FR Outer Sheathing                                 | mm               | 8.30-10.40 |