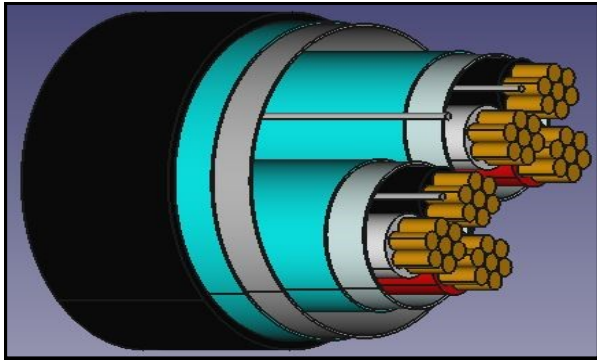


**Construction of Cable: 300/500V Non-Armoured Instrumentation Cable  
 (Individually Screened & Overall Screened - TRIAD)**

**Drawing:**



**Application:**

Instrumentation non-armoured cables are generally used in the petroleum and petrochemical industries. These cables are generally for indoor control applications and they are designed for use in intrinsically safe system. The cables are individually and overall shielded for greater isolation and noise reduction.

| NO. | DESCRIPTION   | XLPE Insulated<br>PVC Sheathed   |
|-----|---|--|
| 1   | Conductor   | Circular stranded plain annealed copper wire according to IEC60228   |
| 2   | Identification of cores:<br>Single triad – Black, White and Red<br>Multi triads and above:<br>Number 1, 2, 3... and the number shall be yellow or black printed on White cores. | Cross-linked polyethylene (XLPE) according to BS EN50288-1   |
| 3   | Individual Screen   | Aluminium polyester tape with metallic side downward in contact with a 0.5mm <sup>2</sup> tinned copper drain wire <b>(OPTIONAL)</b> |
| 4   | Laying Up   | Triads stranded together. Binder tape and non-hygroscopic filler may be applied where necessary                                      |
| 5   | Overall Screen  | Aluminium polyester tape with metallic side downward in contact with a 0.5mm <sup>2</sup> tinned copper drain wire <b>(OPTIONAL)</b> |
| 6   | Outer sheath shall be black   | PVC type ST2 according to BS EN50288-1   |

**TECHNICAL DATA**

|   |                               |                    |
|---|-------------------------------|--------------------|
| 1 | Voltage                       | 300/500V           |
| 2 | Maximum Conductor Temperature | 90°C               |
| 3 | Reference                     | BS EN50288-7       |
| 4 | Testing Voltage               | 1000V              |
| 5 | Minimum Bending Radius        | 8 X Bending Radius |