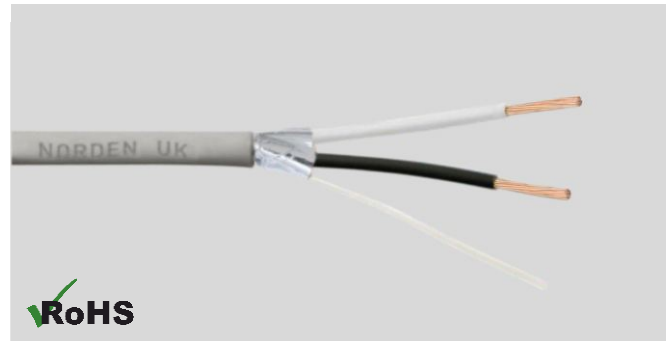


# 2 Core 1.2mm<sup>2</sup> Shielded Multi Conductor Cable FRPVC



Norden Shielded Multi Conductor Cable is engineered for reliable signal transmission in critical control, instrumentation, and low-voltage power applications. Designed with dual layers of mica tape for flame protection, the cable features XLPE (cross-linked polyethylene) insulation for excellent thermal and electrical performance. A 100% coverage aluminium-mylar (Al-Mylar) tape shield ensures superior protection against EMI/RFI interference. The cable is finished with a robust, flame-retardant FRPVC outer jacket, making it suitable for applications where enhanced safety are essential.



## CABLE CONSTRUCTION

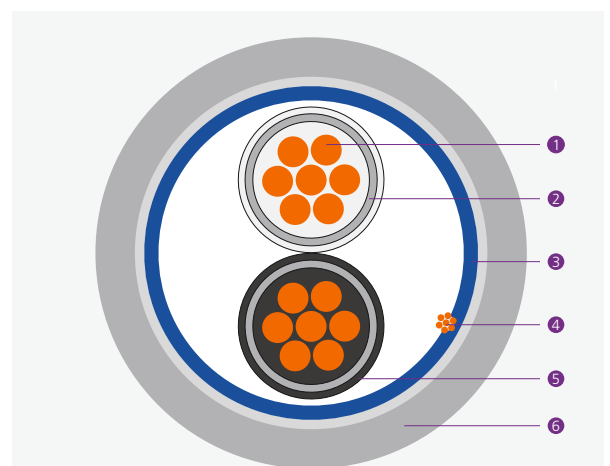
|  |  |                                    |   |
|--|--|------------------------------------|---|
| <b>Conductor</b><br>Stranded Bare Copper | <b>Insulation 2</b><br>XLPE            | <b>Drain Wire</b><br>Tinned Copper | <b>Jacket Color</b><br>Grey or As per requirement |
| <b>Insulation 1</b><br>Mica Tape         | <b>Shielding</b><br>100% Al-Mylar Tape | <b>Jacket</b><br>FRPVC             |   |

## PHYSICAL CHARACTERISTICS

| Characteristic                   | Value                           |
|----------------------------------|---------------------------------|
| No. of Conductor                 | 2                               |
| Conductor Size                   | 1.2 mm <sup>2</sup> ( 60/0.16 ) |
| Insulation 1 Thickness           | 0.15 mm                         |
| Insulation 2 Thickness           | 0.8 mm                          |
| Insulation Diameter              | 3.65 mm                         |
| Drain Wire Size                  | 7/0.20                          |
| Jacket Thickness                 | 0.8 mm                          |
| Jacket Diameter                  | 8.8 mm                          |
| Max. Recommended Pulling Tension | 300N                            |
| Bending Radius                   | 89 mm                           |
| Operating Temperature            | 0°C to +60°C                    |

## ELECTRICAL CHARACTERISTICS

| Characteristic                           | Unit | Value   |
|--|------|---------|
| Nom. Capacitance Cond. to Cond.          | pF/m | 90      |
| Nom. Capacitance Cond. to Cond. & Shield | pF/m | 210     |
| DCR Conductor                            | Ω/Km | ≤15     |
| DCR Shield                               | Ω/Km | ≤82     |
| Dielectric Strength                      | MV/m | ≥30     |
| Max. Recommended Current                 | A    | 15      |
| Max. Operating Voltage                   | V    | 300/500 |



|                   |                |                   |                 |                 |
|-------------------|----------------|-------------------|-----------------|-----------------|
| 1<br>Conductor    | 2<br>Mica Tape | 3<br>Al-Foil Tapa | 4<br>Drain Wire | 5<br>Insulation |
| 6<br>Outer Sheath |                |                   |                 |                 |



# 2 Core 1.2mm<sup>2</sup> Shielded Multi Conductor Cable FRPVC



## MECHANICAL CHARACTERISTICS

| Characteristic                | Value    |
|-------------------------------|----------|
| Test Material                 | FRPVC    |
| Before Tensile Strength (Mpa) | ≥ 13.8   |
| Aging Elongation (%)          | ≥ 100    |
| After Tensile Strength        | ≥ 70%    |
| Aging Elongation (%)          | ≥ 45     |
| Cold Bend (-20±°C x 4 hrs)    | No Crack |

## INSULATION COLOUR CODE

| Individual Core | Colour |
|-----------------|--------|
| Core 1          | Black  |
| Core 2          | White  |

## ORDERING INFORMATION

| Part Number | Description   | Net Weight (Kg/Km) |
|-------------|---|--------------------|
| 71-M202125  | 2 Core 1.2 mm <sup>2</sup> Shielded Multi Conductor Cable FRPVC | 80                 |