



Ref No: BCS1220FE

## DESCRIPTION :

### Fire Detection and Alarm System Cables

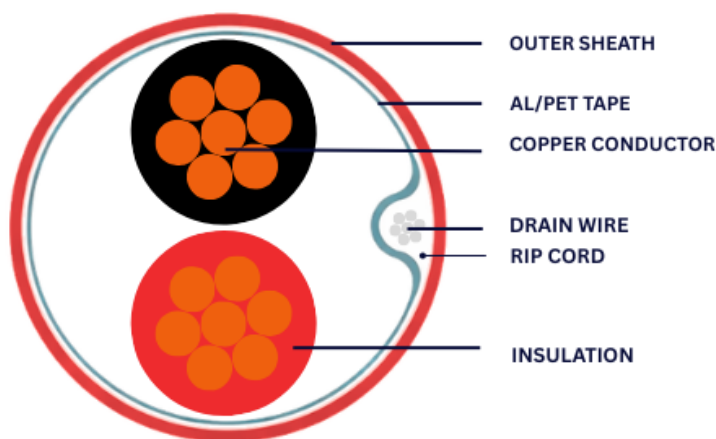
2-Core 16 AWG stranded bare copper conductors with PVC insulation and overall shielding, designed to ensure stable signal transmission, reduced electromagnetic interference (EMI), and reliable performance in fire detection and alarm systems for both residential and commercial installations.

## APPLICATION :

Multi-Conductor PVC Shielded Cables Suitable for Fire Detection and Alarm Systems

## CONSTRUCTION :

|                        |                                    |
|------------------------|------------------------------------|
| Cores                  | 2 Core                             |
| Section                | 16 AWG                             |
| Conductor Material     | Stranded Bare Copper (BC)          |
| Insulation             | Polyvinyl Chloride                 |
| Colour                 | Black, Red                         |
| Drain Wire             | Tinned Copper wire                 |
| Screen (100% Coverage) | Aluminium/Polyester                |
| Sheath Material        | Flame-Retardant Polyvinyl Chloride |
| Sheath Color           | Red                                |
| Standard Put Up Length | 305, 500 meters                    |



## PHYSICAL & MECHANICAL CHARACTERISTICS

|                                   |                 |
|-----------------------------------|-----------------|
| Operating Temperature (°C)        | -40°C to +105°C |
| Nominal Cable Weight (kg/km)      | 40              |
| Nominal Insulation Thickness (mm) | 0.28            |
| Nominal Sheath Thickness (mm)     | 0.5             |
| Nominal Overall Diameter (mm)     | 4.4             |
| Min. Bend Radius (install) (mm)   | 44              |
| Max. Pull Tension (N)             | 346             |
| Fire Retardancy                   | FPLR            |

## TECHNICAL DATA & STANDARD REFERENCES

|                       |
|-----------------------|
| UL 1666 – UL1424 FPLR |
| RoHS Directives       |

## ELECTRICAL CHARACTERISTICS

|                                |              |
|--------------------------------|--------------|
| Capacitance Cond. To Cond.     | 219pF/m      |
| Capacitance Cond. To Screen.   | 429pF/m      |
| DC Resistance Conductor (Ω/km) | 15.48Ω/km    |
| DC Resistance Screen (Ω/km)    | 53.8Ω/km     |
| Recommended Current at 25°C    | 11 (Amps)    |
| Nominal Inductance             | 0.6 (μH/m)   |
| Operating Voltage              | 300 V (Vrms) |

## BELFAST ACCREDITED BY :

