



BCS4504FE

#### DESCRIPTION :

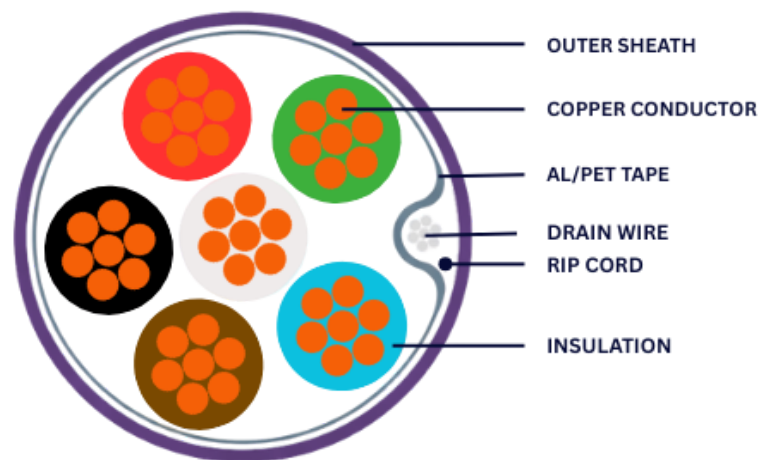
6 Core, 22 AWG multi-conductor cable with Stranded Bare Copper conductors, PE insulation, and overall shielding, LSZH/HFFR sheath for enhanced fire safety, low smoke, and zero halogen emissions.

#### APPLICATION :

Multi-conductor cable suitable for building management systems (BMS), instrumentation, security, and audio control/sound system applications.

#### CONSTRUCTION :

|                        |                                      |
|------------------------|--------------------------------------|
| Cores                  | 6 Core                               |
| Section                | 22AWG                                |
| Conductor Material     | Stranded Bare Copper (BC)            |
| Insulation             | Polyethylene (PE)                    |
| Colour                 | Black, Red, White, Green, Brown Blue |
| Cabling                | Cores laid by twisting               |
| Screen (100% Coverage) | Aluminium/Polyester                  |
| Drain Wire             | Stranded Tinned Copper Wire          |
| Rip Cord               | Nylon Yarn                           |
| Sheath Material        | Low Smoke Zero Halogen (LSZH/ FRNC)  |
| Sheath Color           | RAL 4005 (Purple)                    |
| Standard Put Up Length | 305, 500 meters                      |



#### PHYSICAL & MECHANICAL CHARACTERISTICS

|                                   |                |
|-----------------------------------|----------------|
| Operating Temperature (°C)        | -25°C to +75°C |
| Nominal Cable Weight (kg/km)      | 40             |
| Nominal Insulation Thickness (mm) | 0.25           |
| Nominal Sheath Thickness (mm)     | 0.50           |
| Nominal Overall Diameter (mm)     | 4.8            |
| Min. Bend Radius (install) (mm)   | 48             |
| Max. Pull Tension (N)             | 150            |

#### TECHNICAL DATA & STANDARD REFERENCES

|                                         |
|-----------------------------------------|
| IEC 60228                               |
| EN 50290-2                              |
| IEC 60332-1, IEC 60754-1/2, IEC 61034-2 |
| UL 1685                                 |
| RoHS Directives                         |

#### ELECTRICAL CHARACTERISTICS

|                                         |                   |
|-----------------------------------------|-------------------|
| Capacitance Cond. To Cond.              | 65pF/m            |
| Capacitance Cond. To Screen.            | 120 pF/m          |
| DC Resistance Conductor ( $\Omega$ /km) | 57.8 $\Omega$ /km |
| DC Resistance Screen ( $\Omega$ /km)    | 78.6 $\Omega$ /km |
| Max. Recommended Current at 25°C        | 2.0 (Amps)        |
| Inductance                              | 0.5 $\mu$ H/m     |
| Operating Voltage                       | 300 V (Vrms)      |

#### BELFAST ACCREDITED BY:

