



Ref No: BCS17814A

### DESCRIPTION :

Category 6 Cable, 4 Pair, U/UTP, PVC - GREY

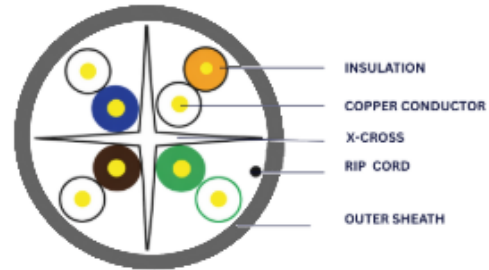
Premise Horizontal Cable (250MHz), 4-Pair, 23 AWG solid bare copper conductors, U/UTP, Polyethylene insulation,

### APPLICATION :

Twisted pair indoor LSZH cable suitable for Local Area Networks and Video Applications

### CONSTRUCTION :

|                        |                                                                                                                          |
|------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Cores                  | 4 Pair                                                                                                                   |
| Section                | 23AWG                                                                                                                    |
| Conductor Material     | Bare Copper                                                                                                              |
| Insulation             | High-Density Polyethylene (HDPE)                                                                                         |
| Colour Code            | Pair 1: WHITE/Blue + BLUE<br>Pair 2: WHITE/Orange + ORANGE<br>Pair 3: WHITE/Green + GREEN<br>Pair 4: WHITE/Brown + BROWN |
| Rip Cord               | Nylon Yarn                                                                                                               |
| Sheath Material        | LSZH/HFFR                                                                                                                |
| Sheath Color           | GREY                                                                                                                     |
| Standard Put Up Length | 305, 500 meters                                                                                                          |



### STANDARD REFERENCES

EN 50290-2, IEC 60332-1

ANSI/TIA/EIA-568-C2

ISO 11801

RoHS Directives

### TRANSMISSION PERFORMANCE :

| Frequency (MHz) | Return Loss(>dB) | ATT (Max.dB) | NEXT (Min.dB) | PS NEXT(Min.dB) | ELFEXT(Min.dB) | PSELFEXT(Min.dB) |
|-----------------|------------------|--------------|---------------|-----------------|----------------|------------------|
| 1               | 19.1             | 2.03         | 65            | 62              | 64.2           | 61.2             |
| 4               | 21               | 3.78         | 64.1          | 61.8            | 52.1           | 49.1             |
| 8               | 21               | 5.32         | 59.4          | 57              | 46.1           | 43.1             |
| 10              | 21               | 5.95         | 57.8          | 55.5            | 44.2           | 41.2             |
| 16              | 20               | 7.55         | 54.6          | 52.2            | 40.1           | 37.1             |
| 20              | 19.5             | 8.47         | 53.1          | 50.7            | 38.2           | 35.2             |
| 25              | 19               | 9.51         | 51.5          | 49.1            | 36.2           | 33.2             |
| 31.25           | 18.5             | 10.67        | 50            | 47.5            | 34.3           | 31.3             |
| 62.5            | 16               | 15.38        | 45.1          | 42.7            | 28.3           | 25.3             |
| 100             | 14               | 19.8         | 41.8          | 39.3            | 24.2           | 21.2             |
| 200             | 11               | 28.98        | 36.9          | 34.3            | 18.2           | 15.2             |
| 250             | 10               | 32.85        | 35.3          | 32.7            | 16.2           | 13.2             |

### PHYSICAL & MECHANICAL CHARACTERISTICS

|                                 |                        |
|---------------------------------|------------------------|
| Operating Temperature (°C)      | -15°C to +70°C         |
| Screen type                     | U/UTP                  |
| Nominal Cable Weight (kg/km)    | 42                     |
| Nominal Sheath Thickness (mm)   | 0.4                    |
| Nominal Overall Diameter (mm)   | 6.0                    |
| Min. Bend Radius (install) (mm) | 8xD (Overall diameter) |
| Max. Pull Tension (N)           | 159                    |

### ELECTRICAL CHARACTERISTICS

|                                    |                 |
|------------------------------------|-----------------|
| Conductor Resistance (Ohm/100m)    | ≤ 9.37 Ohm/100m |
| Mutual Capacitance (pF/m)          | ≤ 5.7 pF/m      |
| Impedance (Ohm)                    | 100 ± 15        |
| Velocity of Propagation (%)        | 65              |
| Maximum Delay Skew (N)s/100m)      | 46              |
| Max. Operating Voltage (Volts RMS) | 300 V (Vrms)    |

### BELFAST ACCREDITED BY :



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Disclaimer: Information is believed to be accurate but may contain errors. Specifications may change without notice.



COMPANY PROFILE