



Ref No: BCS110GXE03

### DESCRIPTION :

Category 6A Cable,CAT6A F/FTP 10G 4-PAIR 23AWG LSZH WHITE CABLE

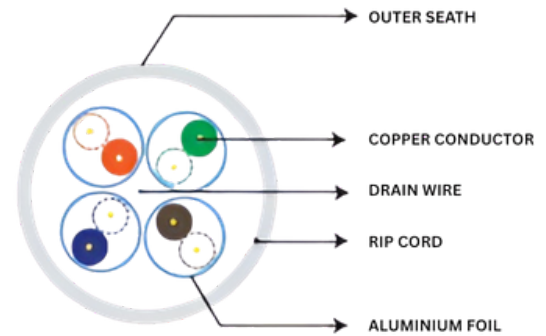
Premise Horizontal Cable (500MHz), 10G, 4-Pair, 23 AWG solid bare copper conductors, F/FTP (HDPE) insulation, LSZH

### APPLICATION :

Suitable for Local Area Networks (LAN) and analog & digital video applications

### CONSTRUCTION :

|                        |                                                                                                                          |
|------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Cores                  | 4 Pair                                                                                                                   |
| Section                | 23AWG                                                                                                                    |
| Conductor Material     | Solid 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                                                                                                               |
| Drain Wire             | Tinned copper                                                                                                            |
| Sheath Material        | LSZH/HFFR                                                                                                                |
| Sheath Color           | White                                                                                                                    |
| 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) | Min.Return Loss(dB/100m) | Max. Attenuation (dB) | NEXT (dB) | PSNEXT (ns/100m) | PSELFEXT (dB) | ZIN (dB) | ELFEXT (dB) |
|-----------------|--------------------------|-----------------------|-----------|------------------|---------------|----------|-------------|
| 1               | 20.0                     | 3.7                   | 74.3      | 72.3             | 55.9          | 100±15   | 61.0        |
| 10              | 25.0                     | 5.8                   | 59.3      | 57.3             | 47.8          | 100±15   | 49.0        |
| 31.25           | 23.6                     | 10.4                  | 51.9      | 49.9             | 37.9          | 100±15   | 42.9        |
| 100             | 20.1                     | 19.0                  | 44.3      | 42.3             | 27.8          | 100±15   | 41.0        |
| 300             | 17.3                     | 34.2                  | 37.1      | 35.1             | 18.1          | 100±25   | 36.9        |
| 500             | 17.3                     | 45.2                  | 33.8      | 31.8             | 14.0          | 100±25   | 35.0        |

### PHYSICAL & MECHANICAL CHARACTERISTICS

|                                 |                              |
|---------------------------------|------------------------------|
| Operating Temperature (°C)      | -20°C to +60°C               |
| Screen type                     | U/FTP                        |
| Nominal Sheath Thickness (mm)   | 0.59 mm                      |
| Nominal Overall Diameter (mm)   | 7.3 ± 0.4 mm                 |
| Max. Pull Tension (N)           | 112                          |
| Min. Bend Radius (install) (mm) | 59 mm (≈ 8 × cable diameter) |

### 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 (%)        | 70              |
| Maximum Delay Skew (Ns/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.



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