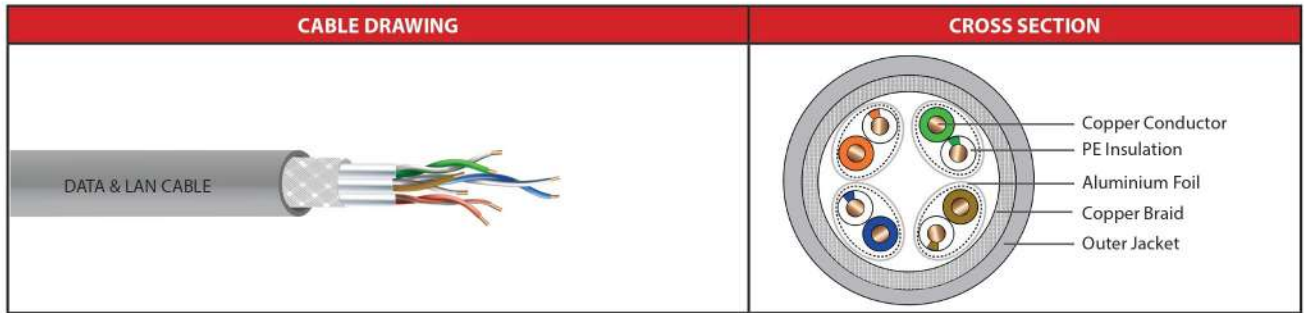


# CAT 7 S/FTP 26 AWG 600 MHz Data Cable



| MECHANICAL and PHYSICAL PROPERTIES |                                                                       |                        |                       |
|------------------------------------|-----------------------------------------------------------------------|------------------------|-----------------------|
| Basic Conductor                    | Bare annealed copper                                                  | Outer Jacket           | PUR- Polyurethane     |
| Conductor Size                     | 26 AWG- 7x0.16                                                        | Jacket Color           | Black                 |
| Insulation                         | Polyolefin                                                            | Surface Marking        | As a customer request |
| Number of Insulated Conductors     | 8, twisted in 4 pairs                                                 | Pulling Force          | 80 N                  |
| Color Code of Pairs                | Blue x White, Orange x White, Green x White, Brown x White            | Short Term Bend Radius | 4xOD mm               |
| Individual Pair Shield             | Laminated aluminium foil (foil face outward) providing 100% coverage. | Long Term Bend Radius  | 8xOD mm               |
| Overall Shield                     | Braided tinned copper wire screen.                                    | Operating Temperature  | -40 to +80C           |
| Minimum Insulation Diameter        | 1.05 mm                                                               |                        |                       |

| ELECTRICAL SPECIFICATIONS       |                                                     |
|---------------------------------|-----------------------------------------------------|
| Characteristic Impedance        | 100±5 Ohm @ 1-600 MHz                               |
| DC Resistance                   | 20 Ohm/Km max.                                      |
| Resistance unbalance            | 2% max                                              |
| Capacitance                     | 45 pF/m nom. @ 1 KHz                                |
| Cap. Unbalance (wire to ground) | 1500 pF/Km max. @ 1 KHz                             |
| Voltage rating                  | 72 Vdc max                                          |
| Dielectric strength             | 700 Volts/1 minute min rms                          |
| Velocity of Propagation (NVP)   | 77-80%                                              |
| Propagation delay               | 500+36/P½ @ 1-600 MHz.                              |
| Propagation Delay Skew          | 25 nS/100m max @ 1-600 MHz                          |
| Insulation Resistance           | 5000 MegaOhm·Km min. @ 500 Vdc                      |
| Coupling attenuation            | 55 dB min @ 30-100 MHz 55-20Log(f/100)@100-600 MHz  |
| Transfer Impedance              | 10 mOhm/m max @ 1-30 MHz 30 MOhm/m max @ 30-100 MHz |

| Frequency<br>(MHz) | Return Loss<br>(dB) | Insertion Loss<br>(dB/100m) | NEXT Loss<br>(dB) | PS NEXT Loss<br>(dB) | PS ELFEXT<br>(dB/100m) |
|--------------------|---------------------|-----------------------------|-------------------|----------------------|------------------------|
| 1                  | 20,0                | 2,0                         | 78,0              | 75,0                 | 75,0                   |
| 4                  | 23,0                | 3,7                         | 78,0              | 75,0                 | 75,0                   |
| 8                  | 24,5                | 5,2                         | 78,0              | 75,0                 | 72,9                   |
| 10                 | 25,0                | 5,9                         | 78,0              | 75,0                 | 71,0                   |
| 16                 | 25,0                | 7,4                         | 78,0              | 75,0                 | 66,9                   |
| 20                 | 25,0                | 8,3                         | 78,0              | 75,0                 | 65,0                   |
| 25                 | 24,3                | 9,3                         | 78,0              | 75,0                 | 63,0                   |
| 31,25              | 23,6                | 10,4                        | 78,0              | 75,0                 | 61,1                   |
| 62,5               | 21,5                | 14,9                        | 75,5              | 72,5                 | 55,1                   |
| 100                | 20,1                | 19,0                        | 72,4              | 69,4                 | 51,0                   |
| 200                | 18,0                | 27,5                        | 67,9              | 64,9                 | 45,0                   |
| 250                | 17,3                | 31,0                        | 66,4              | 63,4                 | 43,0                   |
| 300                | 17,3                | 34,2                        | 65,2              | 62,2                 | 41,5                   |
| 400                | 17,3                | 40,0                        | 63,4              | 60,4                 | 39,0                   |
| 500                | 17,3                | 45,3                        | 61,9              | 58,9                 | 37,0                   |
| 600                | 17,3                | 50,1                        | 60,7              | 57,7                 | 35,4                   |

| ORDERING INFORMATION |                |                       |
|----------------------|----------------|-----------------------|
| Packaging            | Approx. OD(mm) | Approx. Weight(kg/km) |
| 500m Drum            | 6.8±0.3        | 58                    |
| 1000m Drum           | 6.8±0.3        | 58                    |