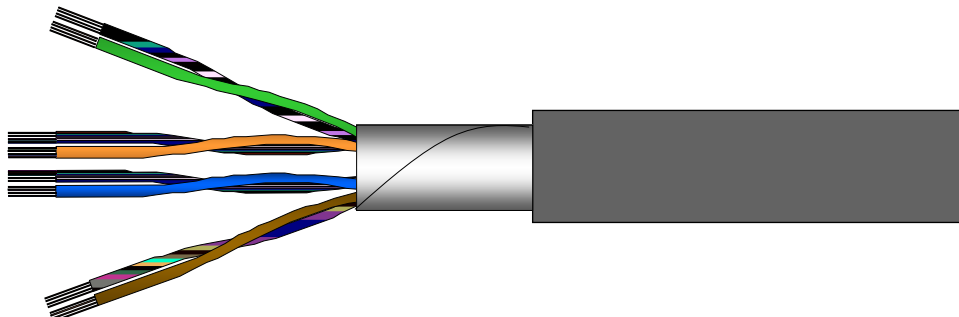
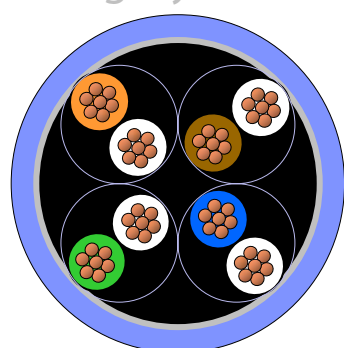


# Technical Specification

## Category 5e FTP Patch (AWG 26)



| Cabling Application                                    |              | Applicable Standards                                            |                           |
|--------------------------------------------------------|--------------|-----------------------------------------------------------------|---------------------------|
| Structured Cable for Patch & Floor Outlet Installation |              | ISO/IEC 11801 2 <sup>nd</sup> Edition                           |                           |
| Compatible with all Known Connection systems           |              | EN 50173; EN 50288-2-2 2000                                     |                           |
| according to EN50173                                   |              | ANSI/TIA/EIA-568-B.2.1-2002                                     |                           |
| Approved by BASEC 067/001/010                          |              | Fire Propagation Test : UL 1581 VW1;<br>IEC 60332.1;EN50265-2-1 |                           |
| Cable construction                                     |              |                                                                 |                           |
| Conductor                                              | Bare Cu Wire | Outside Diameter of Conductor                                   | (7x0.16) 0.48 mm          |
| Insulator Material                                     | PE           | Outside Diameter of Insulation                                  | 0.94 mm                   |
| Number of Twisted Pairs                                | 4            | Outside Diameter of Sheath                                      | 5.40 mm                   |
| Screen Material (Laminated Foil Tape)                  | Al/PE        | Weight PVC (OHLS)                                               | 34.8(36.5) kg/km          |
| Sheath Material                                        | PVC or OHLS  | Sheath Colour (OEM Specified)                                   | Various                   |
|                                                        |              | Sheath Printing (up to 24 characters)                           | Batch No. & Metre marking |
| Cable Properties                                       |              | Electrical Characteristics @ 20 °C                              |                           |
| Min. Installation Bend Radius                          | 8 x Dia      | Characteristic imped. (1-10&20-100Mhz)                          | 100±15 Ω                  |
| Min. Installed Bending Radius                          | 4 x Dia      | Characteristic impedance (10-20Mhz)                             | 100±12 Ω                  |
| Max. Installation Tension                              | 100N         | DC Conductor Loop Resistance                                    | 30 Ω/100m                 |
| Max. Installed Tension                                 | Zero         | Max. Resistance unbalance                                       | ≤2%                       |
| Installation Temp. Range Installed                     | 0 to 50°C    | Nominal Velocity of Propagation                                 | 66%                       |
| Operating Temp. Range                                  | -20 to 50°C  | Nominal Capacitance                                             | 50 pF/m                   |
|                                                        |              | Max. Capacitance unbalance                                      | 1600 pF/km                |
|                                                        |              | Insulation Resistance (500V)                                    | ≥2000 M Ω.km              |

| Frequency (MHz) | Impedance (Ohms) | SRL (dB) | Attenuation (dB) | NEXT Worst Pair (dB) | NEXT Power Sum (dB) | ELFEXT Worst Pair (dB) | ELFEXT Power Sum (dB) | Velocity of Propagation (%) |
|-----------------|------------------|----------|------------------|----------------------|---------------------|------------------------|-----------------------|-----------------------------|
| 0.772           |                  | —        | 1.8              | 67                   | 64                  | —                      | —                     |                             |
| 1               |                  | 19       | 2                | 66                   | 62                  | 64                     | 61                    |                             |
| 4               |                  | 20.8     | 4.1              | 57                   | 53                  | 52                     | 49                    |                             |
| 8               |                  | 21.7     | 5.8              | 52                   | 48                  | 46                     | 43                    |                             |
| 10              |                  | 22       | 6.5              | 51                   | 47                  | 44                     | 41                    |                             |
| 16              | 100 ± 15         | 22       | 8.2              | 48                   | 44                  | 40                     | 37                    | 70                          |
| 20              |                  | 22       | 9.3              | 46                   | 42                  | 38                     | 35                    |                             |
| 25              |                  | 21.3     | 10.4             | 45                   | 41                  | 36                     | 33                    |                             |
| 31.25           |                  | 20.6     | 11.7             | 43                   | 39                  | 34                     | 31                    |                             |
| 62.5            |                  | 18.5     | 17               | 39                   | 35                  | 28                     | 25                    |                             |
| 100             |                  | 17.1     | 22               | 36                   | 32                  | 24                     | 21                    |                             |