

# CAT 6 stranded

## S/FTP 4 PR AWG 26/7



|                                 |                                                                              |
|---------------------------------|------------------------------------------------------------------------------|
| <b>CONDUCTOR</b>                | Stranded copper conductor 26 AWG                                             |
| <b>INSULATION</b>               | Foam PE                                                                      |
| <b>CONDUCTOR IDENTIFICATION</b> | 1. White & Blue<br>2. White & Orange<br>3. White & Green<br>4. White & Brown |
| <b>PAIR SHIELDING</b>           | Aluminium foil                                                               |
| <b>SHIELDING</b>                | Tinned copper wire braid                                                     |
| <b>SHEATH</b>                   | LSZH                                                                         |
| <b>REFERENCE STANDARD</b>       | IEC 61156-6 & ISO/IEC 11801                                                  |

### PHYSICAL PROPERTIES:

|                                         |                           |
|-----------------------------------------|---------------------------|
| <b>RATED TEMPERATURE</b>                | 75°C                      |
| <b>OPERATING TEMPERATURE RANGE</b>      | -20°C - 75°C              |
| <b>BENDING RADIUS</b>                   | Installation 8 x diameter |
| <b>MAX. RECOMMENDED PULLING TENSION</b> | 80 N                      |
| <b>OUTER DIAMETER</b>                   | 6.1±0.3mm                 |
| <b>CABLE WEIGHT</b>                     | 37 kg/km                  |

### ELECTRICAL PROPERTIES:

|                                             |                                                                                                                                                 |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAX. CONDUCTOR DC RESISTANCE</b>         | 145 Ω/km @20 °C                                                                                                                                 |
| <b>CONDUCTOR LOOP RESISTANCE</b>            | max. 29 Ω/100 m @20 °C                                                                                                                          |
| <b>NOM. MUTUAL CAPACITANCE</b>              | ≤5.6 nF/100 m @1 kHz                                                                                                                            |
| <b>CAPACITANCE UNBALANCE PAIR TO GROUND</b> | ≤1600 pF/km @1 kHz                                                                                                                              |
| <b>MIN. INSULATION RESISTANCE</b>           | 5000 MΩ/m                                                                                                                                       |
| <b>IMPEDANCE</b>                            | 100±25 Ω @100 MHz                                                                                                                               |
| <b>FIRE PERFORMANCE</b>                     | IEC 60332-1<br>IEC 60332-3-22                                                                                                                   |
| <b>IDENTIFICATION</b>                       | Printed on the sheath:<br>Manufacturer's name,<br>Cable size and type,<br>Fire performance, Lot<br>number, Manufacturing<br>date, Meter marking |
| <b>PACKAGING</b>                            | 500 m drum                                                                                                                                      |

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### ITEM NUMBERS:

| Part number | Item description         | Colour |
|-------------|--------------------------|--------|
| 3370149072  | S/FTP-CAT6, AWG26/7 500m | Black  |
| 3370249072  | S/FTP-CAT6, AWG26/7 500m | Yellow |
| 3370349072  | S/FTP-CAT6, AWG26/7 500m | Grey   |
| 3370449072  | S/FTP-CAT6, AWG26/7 500m | White  |
| 3370549072  | S/FTP-CAT6, AWG26/7 500m | Orange |
| 3370649072  | S/FTP-CAT6, AWG26/7 500m | Blue   |
| 3370749072  | S/FTP-CAT6, AWG26/7 500m | Red    |
| 3370849072  | S/FTP-CAT6, AWG26/7 500m | Green  |

### PERFORMANCE:

| F<br>(MHz) | ATT<br>(dB/100 m) | RL<br>(dB) | NEXT<br>(dB) | PS NEXT<br>(dB) | ACRF<br>(EL FEXT)<br>(dB/100 m) | PS ACRF<br>(PS EL FEXT)<br>(dB/100 m) | PD<br>(ns/100 m) |
|------------|-------------------|------------|--------------|-----------------|---------------------------------|---------------------------------------|------------------|
| 1.0        | 2.6               | 34         | 91           | 84              | 92                              | 89                                    | 485              |
| 4.0        | 4.9               | 33         | 93           | 85              | 90                              | 87                                    | 463              |
| 8.0        | 7.0               | 35         | 93           | 88              | 93                              | 90                                    | 457              |
| 10.0       | 7.7               | 38         | 104          | 97              | 102                             | 99                                    | 455              |
| 16.0       | 9.8               | 34         | 110          | 103             | 107                             | 104                                   | 452              |
| 20.0       | 11.1              | 34         | 107          | 101             | 108                             | 105                                   | 451              |
| 25.0       | 12.5              | 39         | 114          | 107             | 111                             | 108                                   | 450              |
| 31,2       | 14.1              | 39         | 110          | 104             | 111                             | 108                                   | 449              |
| 62,5       | 20.2              | 40         | 112          | 106             | 114                             | 111                                   | 447              |
| 100.0      | 25.9              | 43         | 113          | 107             | 118                             | 115                                   | 445              |
| 200.0      | 36.9              | 35         | 111          | 103             | 111                             | 108                                   | 444              |
| 250.0      | 41.4              | 28         | 109          | 103             | 109                             | 106                                   | 443              |
| 300.0      | 45.7              | 29         | 109          | 103             | 112                             | 109                                   | 443              |
| 400.0      | 53.3              | 38         | 108          | 101             | 112                             | 109                                   | 443              |
| 500.0      | 60.1              | 31         | 110          | 97              | 110                             | 107                                   | 443              |
| 600.0      | 66.2              | 27         | 111          | 102             | 111                             | 108                                   | 442              |

**F** = Frequency

**ATT** = Attenuation

**RL** = Return Loss

**NEXT** = Near End Crosstalk

**PS NEXT** = Power Sum Near End Crosstalk

**ACRF (EL FEXT)** = Attenuation to Crosstalk Ratio Far End Crosstalk

**PS ACRF (PS EL FEXT)** = Power Sum Attenuation to Crosstalk Ratio Far End Crosstalk

**PD** = Phase Delay