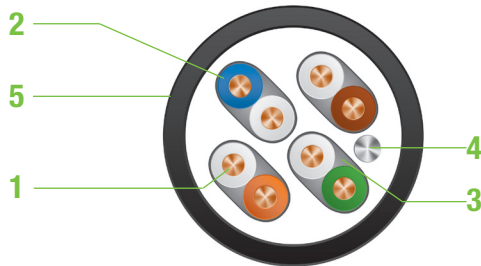




## 5254SHINOUT

CAT6A U/FTP 4 pairs cable 525MHz LSZH Indoor Outdoor



- 1. **Conductor** : solid bare copper AWG23
- 2. **Insulation** : PE Skin Foam Skin
- 3. **Individual shield** : Aluminum/Polyester foil - coverage 110%
- 4. **Drain wire** : Solid tinned copper
- 5. **Outer sheath** : LSZH - Black Indoor/Outdoor

## DESCRIPTIONS

PIMF (Pair In Metallic foil) data cable used in full shielded structured cabling system, for horizontal or vertical (Backbone) configuration. Its performances exceed the limits required by current standards thanks to its excellent high-speed and error free transmission up to 525 Mhz. His special LSZH jacket allow an external and internal link : the cable 5254SHINOUT can be used for outdoor and indoor application.

High electromagnetic immunity thanks to his individual shield (coupling attenuation > 75 dB).

## APPLICATIONS

|                                  |                                |
|----------------------------------|--------------------------------|
| Ethernet Base T up to 10Gbits/s  | TOKEN RING 4/16 MBITS          |
| ISDN                             | ATM 155, 622Mbits/s & 1.2Gbits |
| IEEE 802.3 af /at : PoE and PoE+ |                                |

## STANDARDS

|               |                                |
|---------------|--------------------------------|
| <b>CABLE</b>  | IEC 61156-5 CAT6a              |
| <b>SYSTEM</b> | ISO / IEC 11801 Ed2.2 Class Ea |

## ELECTRICAL PROPERTIES

|   |             |
|---|-------------|
| <b>Max linear electrical resistance</b> | 95 Ω/Km     |
| <b>Mutual capacity (nom)</b>            | 45 pF/m     |
| <b>Characteristic impedance</b>         | 100 +/- 15Ω |
| <b>Nominal Velocity Propagation</b>     | 78%         |





## 5254SHINOUT

CAT6A U/FTP 4 pairs cable 525MHz LSZH Indoor Outdoor

### ENVIRONMENTAL PROPERTIES

|                        |                    |
|------------------------|--------------------|
| CPR Level              | Dca - s2,d2,a2     |
| Fire behaviour         | IEC 60332-1        |
| Operating Temperature  | -20°C / +70°C      |
| Minimum bending radius | 8 x cable diameter |
| Compliant to RoHS      |                    |

### TRANSMISSION PERFORMANCES @20°C

(\* standard : values from IEC 61156-5)

| Freq (Mhz) | Attenuation  |               | NEXT (dB)    |               | PS NEXT (dB) |               | ACR-F (dB)   |               | PS ACR-F     |               | RL (dB)      |               |
|------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|
|            | standard (*) | typical value | standard (*) | typical value | standard (*) | typical value | standard (*) | typical value | standard (*) | typical value | standard (*) | typical value |
| 4          | 3.8          | 3.7           | 66.3         | 67            | 63.3         | 64            | 55.9         | 66            | 52.9         | 63            | 23.0         | 25            |
| 10         | 5.9          | 5.8           | 60.3         | 62            | 57.3         | 59            | 48           | 63            | 45           | 60            | 25.0         | 27            |
| 16         | 7.5          | 7.3           | 57.2         | 59            | 54.2         | 56            | 43.9         | 62            | 40.9         | 59            | 25.0         | 27            |
| 25         | 9.4          | 9.2           | 54.3         | 56            | 51.3         | 53            | 40           | 57            | 37           | 54            | 24.3         | 27            |
| 31.25      | 10.5         | 10            | 52.9         | 55            | 49.9         | 52            | 37.9         | 52            | 35.1         | 49            | 23.6         | 25            |
| 100        | 19.1         | 18.8          | 45.3         | 47            | 42.3         | 44            | 28           | 44            | 25           | 41            | 20.1         | 22            |
| 200        | 27.6         | 27            | 40.8         | 43            | 37.8         | 40            | 22           | 35            | 19           | 32            | 18.0         | 20            |
| 250        | 31.1         | 30            | 39.3         | 42            | 36.3         | 39            | 20           | 29            | 17           | 26            | 17.3         | 19            |
| 300        | 34.3         | 34            | 38.1         | 40            | 35.1         | 37            | 18.4         | 27            | 15.4         | 24            | 17.3         | 19            |
| 400        | 40.0         | 39            | 36.3         | 38            | 33.3         | 35            | 16           | 26            | 13           | 23            | 17.3         | 18            |
| 500        | 45.3         | 44.8          | 34.8         | 37            | 31.8         | 34            | 14           | 26            | 11           | 23            | 17.3         | 18            |
| 525        | NA           | 45.0          | NA           | 36            | NA           | 33            | NA           | 22            | NA           | 19            | NA           | 17            |

### ORDERING INFORMATION

| CABLE 4 PAIRS |                                |                   |           |
|---------------|--------------------------------|-------------------|-----------|
| P/N           | DESCRIPTION                    | EXTERNAL DIAMETER | PACKAGING |
| 5254SHINOUT   | CAT6A CABLE U/FTP 4 PAIRS LSZH | 7 mm              | DRUM 500M |