

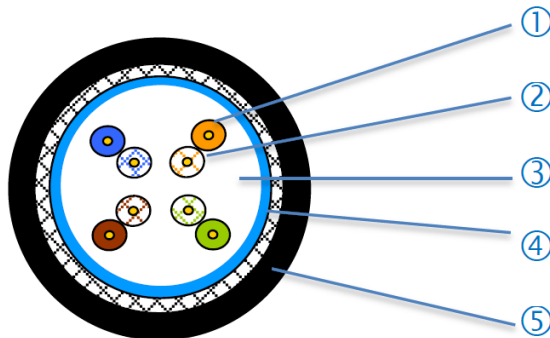
R7435B-T500 ACOLAN COPPER

SF/UTP Cat.5e 200 MHz 4P LSOH-FR DRUM 500m - BLACK

APPLICATIONS

- High speed data transmission cables are designed for horizontal cable distribution local computer networks.
- Protected by a black UV resistant LSOH-FR sheath for outdoor use.
- These cables are permitted the protocol supported by the class D.
- They are characterized of up to 200 MHz.
- They are compatibles with PoE & PoE+, UPoE applications.

GENERAL CHARACTERISTICS



| | |
|--------------------|--|
| 1. Conductor | Solid annealed red copper wire, AWG 24 Colored polyethylene insulation $\varnothing \leq 1.00$ mm |
| 2. Cable element | Cable assembly in Twisted Pairs |
| 3. Cable assembly | 4 pairs assembly |
| 4. Screen | Pet/Alu foil and tinned copper braid (80%) |
| 5. External sheath | LSOH-FR UV stabilize Low Smoke « Zero » Halogen - Flame Retardant |

GENERAL

| Designation ACOLANâ | Ref. | Colour | Diameter | Weight | Superior calorific capacity (PCS) | | Max pulling tension |
|--------------------------------|--------|--------|--------------|--------|--------------------------------------|-------|---------------------|
| | | | mm | Kg/km | MJ/km | KWh/m | N |
| 200 SFU-S 4P LSOH-FR IN/OUT | R7435B | Black | 6.80 to 7.10 | 69 | 665 | 0,185 | 500 |

MECHANICAL

| Characteristics | | Values |
|-------------------|------------------------|------------------|
| Bending radius | Dynamic (installation) | ≥ 60 mm |
| | Static (installed) | ≥ 30 mm |
| Temperature range | In service | - 40°C at + 75°C |
| | At the installation | - 20°C at + 60°C |
| | Transport and storage | - 40°C at + 75°C |
| Waterproofness | Minimum | IP67 |

ELECTRICAL

| Characteristics | | Values | |
|---|-------------------------|--|---------|
| Complete conductor resistance | Any conductor Shield | $\leq 95 \Omega / \text{km}$ $\leq 10.50 \Omega / \text{km}$ | |
| Resistance unbalance | | $\leq 2 \%$ | |
| Dielectric strength | Continuous current | 1.5 kV during 1 minute = no breakdown 5 kV DC during 3 seconds = no breakdown | |
| Insulation resistance | (500 V) | $\geq 5000 \text{ M}\Omega \cdot \text{km}$ | |
| Capacitance unbalance | Real-ground | $\leq 1600 \text{ pF} / \text{km}$ | |
| Characteristic impedance | at 100 MHz | $100 \pm 5 \Omega$ | |
| Velocity | nominal | 66 % | |
| Coupling attenuation | | $\geq 85 \text{ dB}$ | TYPE 1 |
| Transfert impedance | at 1 MHz | $\leq 10 \text{ M}\Omega / \text{m}$ | GRADE 1 |
| | at 10 MHz | $\leq 10 \text{ M}\Omega / \text{m}$ | |
| | at 30 MHz | $\leq 20 \text{ M}\Omega / \text{m}$ | |
| | at 100 MHz | $\leq 30 \text{ M}\Omega / \text{m}$ | |
| Segregation classification acc. EN 50174-2 | | "d" | |

Transmission characteristics at 20° C

| Frequency (MHz) | | 4 | 10 | 20 | 62.5 | 100 | 155** | 200** | Attenuation (dB/100m) | Typical value | 3.8 | 6 | 8.5 | 15.2 | 19.5 | 25 | 28 |
|----------------------|-------------------|------|------|------|------|------|-------|-------|-----------------------|---------------|-----|---|-----|------|------|----|----|
| Imposition (max)* | 4.1 | 6.5 | 9.3 | 17 | 22 | - | - | | | | | | | | | | |
| Next (dB) | Typical value | 63 | 57 | 52 | 45 | 42 | 39 | 37 | | | | | | | | | |
| | Imposition (min)* | 56.3 | 50.3 | 45.8 | 38.4 | 35.3 | - | - | | | | | | | | | |
| ACR (dB) | Typical value | 59.2 | 51 | 43.5 | 29.8 | 22.5 | 14 | 9 | | | | | | | | | |
| | Imposition (min)* | 52.2 | 43.8 | 36.5 | 21.4 | 13.3 | - | - | | | | | | | | | |
| PS Next (dB) | Typical value | 60 | 54 | 49 | 42 | 39 | 36 | 34 | | | | | | | | | |
| | Imposition (min)* | 53.3 | 47.3 | 42.8 | 35.4 | 32.3 | - | - | | | | | | | | | |
| ELFEXT (dB/100 m) | Typical value | 63 | 55 | 48 | 39 | 35 | 31 | 29 | | | | | | | | | |
| | Imposition (min)* | 52 | 44 | 38 | 28 | 24 | - | - | | | | | | | | | |
| PS ELFEXT (dB/100 m) | Typical value | 60 | 52 | 45 | 36 | 32 | 28 | 26 | | | | | | | | | |
| | Imposition (min)* | 49 | 41 | 35 | 25 | 21 | - | - | | | | | | | | | |
| Return Loss (dB) | Typical value | 25 | 25 | 25 | 23.8 | 23 | 22 | 21 | | | | | | | | | |
| | Imposition (min)* | 23 | 25 | 25 | 21.5 | 20.1 | - | - | | | | | | | | | |

NORMS AND STANDARDS

GENERAL



Application

IEEE 802.3: 10Base-T, 100Base-T ;1000Base-T ;
IEEE 802.3 af (PoE) / 802.3 at (PoE+)
IEEE 802.5 / FDDI / ATM / RNIS

Cables

IEC 61156-5 / EN 50288-2-1

Cabling system standard

ISO/IEC 11801 2nd ed. / EN 50173-1 / TIA-568.2-D

Cabling system installation standards

EN 50174

Directive / Regulation


RoHS 2011/65/UE
REACH 1907/2006/EC

EUROCLASS



FIRE BEHAVIOUR

Europe

| Type | Euroclass | Standards | Declaration of performance |
|------|-----------|-------------|---|
| 4P | Eca | IEC 60332-1 | 17SFUTP03  |

Outside Europe

| | |
|----------------------|--------------------------|
| No flame propagation | IEC 60332-1 / EN 60332-1 |
| Low smoke opacity | IEC 61034-2 / EN 61034-2 |
| Low gas corrosivity | IEC 60754-2 / EN 60754-2 |
| Low toxicity | IEC 60754-1 / EN 60754-1 |

RECOMMENDATIONS

DELIVERY LENGTH

| Type | References | Individual | | | Expedition | | |
|------|--------------|-------------------|--------|---------------|------------|--------|---------------|
| | | Type | Weight | EAN code | Quantity | Weight | EAN code |
| 4P | R7435B-T500 | Drum KT of 500 m | 37 kg | 3700223679553 | 18 drums | 681 kg | 3700223679546 |
| | R7435B-T1000 | Drum XC of 1000 m | 74 kg | 3700223679539 | 6 drums | 457 kg | 3700223679522 |