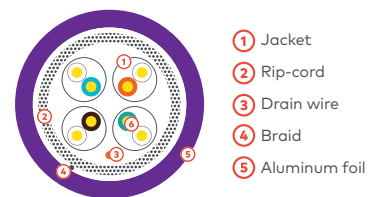


ENTERPRISE/DATA CENTER COPPER CABLE
CAT6A S/FTP - LSZH -23 AWG - 0.56mm

DESCRIPTION

- Performance specified up to 500MHz and tested up to 650MHz;
- Foiled pair by pair and overall screen to improve the cable performance;
- Decreasing length cable markings - Easy identification of remaining cable reduces installation time and cable scrap;
- Designed to Support all Class EA protocols including 10GBASE-T;
- Supports Power Over Ethernet (PoE), Power Over Ethernet Plus (PoE+), High Power Ethernet (PoE++) and 4 Pair Power Over Ethernet (4PPoE) Applications.



APPLICABLE STANDARDS

Electrical Performance:

- ISO/IEC 11801; • ISO/IEC 61156-5; • EN 50173; • EN 50288-10-1;
- ANSI/ TIA-568-D.2;

Reaction to fire:

- IEC 60332-3-22; • IEC 60754; • IEC 61034; • EN 50267-2-3; • EN 13501-6;
- EN ISO 1716:2010; • EN 50575;

PoE:

- IEEE 802.3bt PoE Type 1, 2, 3 and 4.

CONSTRUCTION

| Category | CAT6A S/FTP | | | |
|------------|---------------|----------------------------------|--------|--------------|
| Conductor | Material | Solid Bare Copper | | |
| | Nom O.D. | 0,56 ± 0,005 mm 0,022 in | | |
| Insulation | Material | Skin-foam-skin PE | | |
| | Diameter | 1,330 ± 0,05 mm 0,052 in | | |
| | Thickness | 0,55 ± 0,05 mm 0,022 in | | |
| Sheath | External O.D. | 7,6 ± 0,5 mm 0,307 ± 0,019 in | | |
| | Material | LSZH (complies RoHS) | | |
| | Color | Purple (RAL4005) | | |
| Rip-cord | Yes | | | |
| Core Color | Pair 1 | White/Blue | Pair 2 | White/Orange |
| | Pair 3 | White/Green | Pair 4 | White/Brown |

SHEATH PHYSICAL PROPERTIES

| | |
|-------------------------------------|---------------------------------|
| Before Aging Tensile Strength (Mpa) | ≥ 10,0 |
| Before Aging Elongation (%) | ≥ 125 |
| Aging Period (°C x hrs) | 100°C x24hx7d |
| After Aging Tensile Strength (Mpa) | ≥ 8,0 |
| After Aging Elongation (%) | ≥ 100 |
| Cold bend (-20±2°C x 4h) | 8xCable O.D., No visible cracks |

ELECTRICAL CHARACTERISTICS (20°C)

| | Typical barpa values | Standard values |
|--|-----------------------------------|-----------------|
| 1-250MHz - Impedance (Ω) | 100 ± 15 | |
| 250-500MHz - Impedance (Ω) | 100 ± 22 | |
| 1-500MHz - Delay Skew (ns/100m) | ≤ 12 | ≤ 45 |
| DC Resistance (Ω/100m) | ≤ 7,2 | ≤ 9,38 |
| DC Conductor Resistance Unbalance (%) | 0,5% in pairs; 1,2% between pairs | ≤ 5,0 |
| Unbalanced to Ground Capacitance (pf/100m) | ≤ 100 | ≤ 330 |
| 1-500MHz - Velocity of Propagation (%) - NVP | 74 | - |
| Insulation Resistance (MΩ.km) | > 5000 | - |

TECHNICAL PERFORMANCE (100m || 328ft.)

| Frequency (MHz) | Attenuation ≤ dB | | Return Loss ≥ dB | | NEXT ≥ dB | | PHASE DELAY ≤ ns | | PSNEXT ≥ dB | | ELFEXT ≥ dB | | PSELFEXT ≥ dB | |
|-----------------|------------------|-------|------------------|-------|-----------|-------|------------------|--------|-------------|-------|-------------|-------|---------------|-------|
| | GWC | BT | GWC | BT | GWC | BT | GWC | BT | GWC | BT | GWC | BT | GWC | BT |
| 1 | - | 1,98 | 20,00 | 31,08 | 74,30 | 98,94 | 570,00 | 479,69 | 72,30 | 96,7 | 67,80 | 92,01 | 64,80 | 89,29 |
| 4 | 3,80 | 3,59 | 23,00 | 35,28 | 65,30 | 96,68 | 552,00 | 462,2 | 63,30 | 93,19 | 55,80 | 94,1 | 52,80 | 90,15 |
| 8 | 5,30 | 4,95 | 24,50 | 33,99 | 60,80 | 96,93 | 547,00 | 457,08 | 58,80 | 93,54 | 49,70 | 92,04 | 46,70 | 87,8 |
| 10 | 5,90 | 5,52 | 25,00 | 33,22 | 59,30 | 95,69 | 545,00 | 455,77 | 57,30 | 92,65 | 47,80 | 89,01 | 44,80 | 86,57 |
| 16 | 7,50 | 7,03 | 25,00 | 33,46 | 56,20 | 95,18 | 543,00 | 453,46 | 54,20 | 92,68 | 43,70 | 87,03 | 40,70 | 83,49 |
| 20 | 8,40 | 7,92 | 25,00 | 30,52 | 54,80 | 94,94 | 542,00 | 452,53 | 52,80 | 91,96 | 41,80 | 88,22 | 38,80 | 85,63 |
| 25 | 9,40 | 8,95 | 24,30 | 31,56 | 53,30 | 94,18 | 541,00 | 451,71 | 51,30 | 91,58 | 39,80 | 84,24 | 36,80 | 81,75 |
| 31,25 | 10,50 | 10,08 | 23,60 | 31,32 | 51,90 | 94,23 | 540,00 | 450,97 | 49,90 | 91,93 | 37,90 | 83,4 | 34,90 | 81,59 |
| 62,5 | 15,00 | 14,38 | 21,50 | 35,29 | 47,40 | 92,31 | 539,00 | 449,14 | 45,40 | 90,53 | 31,90 | 78,01 | 28,90 | 74,47 |
| 100 | 19,10 | 18,25 | 20,10 | 31,44 | 44,30 | 87,77 | 538,00 | 448,21 | 42,30 | 85,05 | 27,80 | 75,83 | 24,80 | 71,53 |
| 200 | 27,60 | 26,08 | 18,00 | 33,21 | 39,80 | 84,62 | 537,00 | 447,18 | 37,80 | 81,96 | 21,80 | 60,74 | 18,80 | 57,83 |
| 250 | 31,10 | 29,26 | 17,30 | 31,07 | 38,30 | 81,56 | 536,00 | 446,92 | 36,30 | 79,77 | 19,80 | 61,21 | 16,80 | 57,76 |
| 300 | 34,30 | 32,16 | 16,80 | 29,67 | 37,10 | 79,38 | 536,00 | 446,73 | 35,10 | 77,57 | 18,30 | 58,66 | 15,30 | 55,13 |
| 400 | 40,10 | 37,54 | 15,90 | 27,03 | 35,30 | 79,07 | 536,00 | 446,46 | 33,30 | 77,25 | 15,80 | 43,6 | 12,80 | 41,58 |
| 500 | 45,30 | 42,26 | 15,20 | 23,32 | 33,80 | 76,83 | 536,00 | 446,27 | 31,80 | 74,26 | 13,80 | 42,92 | 10,80 | 39,76 |
| 650* | - | 49,50 | - | 21,20 | - | 63,50 | - | 446,07 | - | 60,70 | - | 39,90 | - | 36,80 |

* Performance specified up to 500MHz and tested up to 650MHz

GWC = Guaranteed Worst Case // BT = barpa Typical

ENTERPRISE/DATA CENTER COPPER CABLE
CAT6A S/FTP - LSZH -23 AWG - 0.56mm

INSTALLATION

| | | | |
|---------------------------------|--------------------------------|----------------------------------|-------------|
| Temperature Range (Operation) | -20°C a +75°C | Temperature Range (Installation) | 0°C a +50°C |
| Min. Bending Radius (Operation) | 4D, D is the finished diameter | Max. Tensile Load (Installation) | 100N |

CABLE MARK

barpa (product code) category 6A S-FTP LSZH CU cable 4 pair 23 AWG Verified to ISO/IEC11801, EN 50173, EN 50174 CLASS (CPR) NVP-74__m (produce date)

ORDER INFORMATION

| Code | Type of package | Package Dimmension (mm) | Gross Weight (kg/item) | Net Weight (kg/item) | Quantity (m) | EAN | CPR Class |
|---------------|-----------------|-------------------------|------------------------|----------------------|--------------|---------------|-------------------|
| 82223422050C1 | Drum | 380x160x390 | 30.3 | 27.8 | 500 | 5608445013897 | Cca - s1a, d1, a1 |

PACKAGING

This images are merely illustratives. We want you to see the importance we attach to the packaging. We always work with products and materials that are easy to use. The drum material is Plywood.



Available in different CPR classes. Please specify your order.



As part of our goal to achieve quality excellence, our barpa System Warranty can give you 25 years products and solution assurance of compliance with the industry performance standard comparing with the class installed. This warranty applies to network infrastructure installations that was made by an approved barpa Partner using an barpa solution (end-to-end). For more informations go to our website.