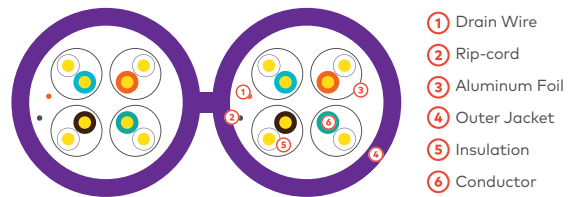
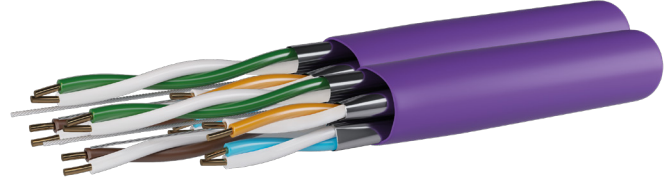


**ENTERPRISE/DATA CENTER COPPER CABLE
 DUPLEX CAT6A U/FTP - LSZH -23 AWG - 0.56mm**

DESCRIPTION

- Performance specified up to 500MHz;
- Individual foil pairs with external S foil;
- 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 U/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. | (7,4-16,0) ± 0,5 mm | | |
| | | (0,307 -0,629) ± 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 |

**ENTERPRISE/DATA CENTER COPPER CABLE
 DUPLEX CAT6A U/FTP - LSZH -23 AWG - 0.56mm**

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 | 2,10 | 1,98 | 20,00 | 31,08 | 74,30 | 93,94 | 570,00 | 479,69 | 72,30 | 91,7 | 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 | 93,93 | 547,00 | 457,08 | 58,80 | 90,89 | 49,70 | 92,04 | 46,70 | 87,8 |
| 10 | 5,90 | 5,52 | 25,00 | 33,22 | 59,30 | 94,69 | 545,00 | 455,77 | 57,30 | 91,36 | 47,80 | 89,01 | 44,80 | 86,57 |
| 16 | 7,50 | 7,03 | 25,00 | 33,46 | 56,20 | 93,18 | 543,00 | 453,46 | 54,20 | 90,17 | 43,70 | 87,03 | 40,70 | 83,49 |
| 20 | 8,40 | 7,92 | 25,00 | 30,52 | 54,80 | 88,94 | 542,00 | 452,53 | 52,80 | 87,46 | 41,80 | 88,22 | 38,80 | 85,63 |
| 25 | 9,40 | 8,95 | 24,30 | 31,56 | 53,30 | 96,08 | 541,00 | 451,71 | 51,30 | 93,46 | 39,80 | 84,24 | 36,80 | 81,75 |
| 31.25 | 10,50 | 10,08 | 23,60 | 31,32 | 51,90 | 96,06 | 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 | 92,33 | 539,00 | 449,14 | 45,40 | 88,01 | 31,90 | 78,01 | 28,90 | 74,47 |
| 100 | 19,10 | 18,25 | 20,10 | 31,44 | 44,30 | 87,75 | 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 | 78,52 | 537,00 | 447,18 | 37,80 | 74,34 | 21,80 | 60,74 | 18,80 | 57,83 |
| 250 | 31,10 | 29,26 | 17,30 | 31,07 | 38,30 | 74,26 | 536,00 | 446,92 | 36,30 | 69,77 | 19,80 | 61,21 | 16,80 | 57,76 |
| 300 | 34,30 | 32,16 | 16,80 | 29,67 | 37,10 | 72,36 | 536,00 | 446,73 | 35,10 | 68,57 | 18,30 | 58,66 | 15,30 | 55,13 |
| 400 | 40,10 | 37,54 | 15,90 | 27,03 | 35,30 | 69,07 | 536,00 | 446,46 | 33,30 | 67,07 | 15,80 | 43,6 | 12,80 | 41,58 |
| 500 | 45,30 | 42,26 | 15,20 | 23,32 | 33,80 | 72,83 | 536,00 | 446,27 | 31,80 | 70,26 | 13,80 | 42,92 | 10,80 | 39,76 |
| 650* | - | 49,50 | - | 21,20 | - | 63,50 | - | 446,07 | - | 60,70 | - | 39,90 | - | 36,80 |

GWC = Guaranteed Worst Case // BT = barpa Typical

ENTERPRISE/DATA CENTER COPPER CABLE
DUPLEX CAT6A U/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 (code) category 6A U-FTP LSZH CU Duplex cable 4 pair 23 AWG - 0,56mm Verified to ISO/IEC11801, EN 50173, EN 50174 CLASS CPR NVP-74 ___m (produce date)

ORDER INFORMATION

| Code | Type of package | Size package (mm) | Gross Weight (kg/item) | Net Weight (kg/item) | Quantity (m) | EAN CODE | CPR Classe |
|-----------------|-----------------|-------------------|------------------------|----------------------|--------------|---------------|-----------------|
| 82223222050C1-2 | Drum | 500x200x360 | 60 | 54,5 | 500 | 5608445019622 | 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 class. Please specify in your request.



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.

This document is authored and owned by barpa. It is forbidden to reproduce in whole or in part without mentioning its authorship, as well as modification of its content or context. All specifications are subject to change without notice. The pictures/drawings are merely illustrative.

More information: info@barpa.eu or in www.barpa.eu