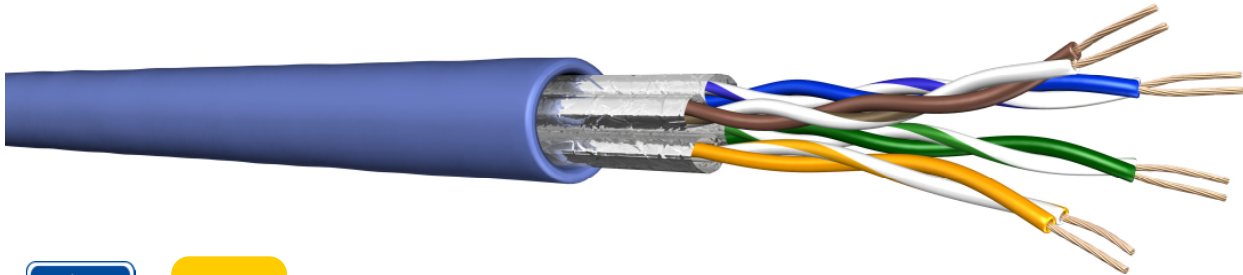


UC500 S27 Cat.6_A U/FTP Patch

U/FTP Patch Cable AWG27/7



Application

Work area and patch cord cable; consolidation point
 IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;
 IEEE 802.5 16 MB; ISDN; TPDDI; ATM
 Power over Ethernet (PoE) / Type 1-4

Standards

EN 50173-1; EN 50288-5-2
 ISO/IEC 11801; IEC 61156-6
 IEEE 802.3af / at / bt

Flame resistance

EN50399: Class E_{ca}
 LSHF(LSOH): IEC 60332-1; IEC 60754-2; IEC 61034;

Construction

| | | |
|--------------|---|--|
| Conductor | stranded bare copper wire Ø 0.42 mm (AWG27) | |
| Insulation | Foam Skin Polyethylene, Ø 0.98 mm | |
| Twisting | 2 cores to the pair | |
| Cable lay up | 4 pairs to the core | |
| Screen | STP: Al-laminated plastic foil, patented wrapping of two pairs each, stranded drain wire AWG26 tinned | |
| Sheath | LSHF(LSOH) | |

Mechanical properties

| | | |
|-------------------|---------------------|-----------------|
| Bending radius | without load | ≥ 25 mm |
| | with load | ≥ 50 mm |
| Temperature range | during operation | -20°C to + 60°C |
| | during installation | 0°C to + 50°C |

UC500 S27 Cat.6A U/FTP Patch

Electrical properties

at 20°C ± 5°C

| | | |
|---------------------------------|---------------|---------------|
| Loop resistance | | ≤ 340 Ω/km |
| Resistance unbalance | | ≤ 3% |
| Insulation resistance | (500 V) | ≥ 2000 MΩ*km |
| Mutual capacitance | at 800 Hz | Nom. 43 nF/km |
| Capacitance unbalance | (pair/ground) | ≤ 1500 pF/km |
| Mean characteristic impedance | 100 MHz | 100 ± 5 Ω |
| Nominal velocity of propagation | | Ca.79 % |
| Propagation delay | | ≤ 427 ns/100m |
| Delay skew | | ≤ 12 ns/100m |
| Test voltage | | 1000 V |
| Transfer impedance | at 1 MHz | ≤ 50 mΩ/m |
| | at 10 MHz | ≤ 100 mΩ/m |
| | at 30 MHz | ≤ 200 mΩ/m |
| Coupling attenuation | | ≥ 55 dB |

Electrical data (nominal)

acc. to Cat.6A (at 20°C)

| F (MHZ) | Attenuation (dB/10m) | NEXT (dB) | PS-NEXT (dB) | ACRF (dB/100m) | PS-ACRF (dB/100m) | Return loss (dB) |
|---------|----------------------|-----------|--------------|----------------|-------------------|------------------|
| 1,0 | 0,3 | 87 | 84 | 75 | 72 | 23 |
| 4,0 | 0,7 | 78 | 75 | 75 | 72 | 23 |
| 10,0 | 1,0 | 72 | 69 | 75 | 72 | 23 |
| 16,0 | 1,3 | 69 | 66 | 71 | 68 | 23 |
| 20,0 | 1,5 | 68 | 65 | 69 | 66 | 23 |
| 31,2 | 1,8 | 65 | 62 | 65 | 62 | 23 |
| 62,5 | 2,6 | 60 | 57 | 59 | 56 | 23 |
| 100,0 | 3,3 | 57 | 54 | 55 | 52 | 23 |
| 125,0 | 3,6 | 56 | 53 | 53 | 50 | 21 |
| 155,5 | 4,1 | 54 | 51 | 51 | 48 | 21 |
| 175,0 | 4,3 | 53 | 50 | 50 | 47 | 21 |
| 200,0 | 4,6 | 53 | 50 | 49 | 46 | 21 |
| 250,0 | 5,1 | 51 | 48 | 47 | 44 | 20 |
| 300,0 | 5,6 | 50 | 47 | 45 | 42 | 20 |
| 400,0 | 6,5 | 48 | 45 | 43 | 40 | 18 |
| 500,0 | 7,3 | 46 | 43 | 40 | 37 | 18 |

Product order data

| Product code | Cable type | Brand name | Euro class | Outer diameter mm | Fire load | | Weight kg/km | Copper content | Tensile force N |
|--------------------|---------------------------|-----------------------------------|-----------------|----------------------|-----------|-------|-----------------|----------------|--------------------|
| | | | | | MJ/km | kWh/m | | | |
| 1019004 1018934 | Li-02YS(St)H 4x2x0.42L | UC500 S27 Cat.6A U/FTP 4P LSHF | E _{ca} | 5.7 | 342 | 0.090 | 27.5 | 12 | 50 |

UC500 S27 Cat.6_A U/FTP Patch

Product Code Table

| Product Description | Product Code | PG Reference Code | PG Part Number |
|--|-----------------|-------------------|----------------|
| UC500 S27 C6A U/FTP _p 4P LSHF BK | 1023140 | 60015502 | 60015502 |
| UC500 S27 C6A U/FTP _p 4P LSHF BK 500DW | 1023140-00500DW | 60015502 | 60015503 |
| UC500 S27 C6A U/FTP _p 4P LSHF BK 500DP | 1023140-00500DP | 60015502 | 60015504 |
| UC500 S27 C6A U/FTP _p 4P LSHF RD | 1023138 | 60015505 | 60015505 |
| UC500 S27 C6A U/FTP _p 4P LSHF RD 500DW | 1023138-00500DW | 60015505 | 60015506 |
| UC500 S27 C6A U/FTP _p 4P LSHF GN | 1019004 | 60015507 | 60015507 |
| UC500 S27 C6A U/FTP _p 4P LSHF GN 500DW | 1019004-00500DW | 60015507 | 60015508 |
| UC500 S27 C6A U/FTP _p 4P LSHF BU | 1023139 | 60015509 | 60015509 |
| UC500 S27 C6A U/FTP _p 4P LSHF BU 500DW | 1023139-00500DW | 60015509 | 60015512 |
| UC500 S27 C6A U/FTP _p 4P LSHF GY | 1018934 | 60015514 | 60015514 |
| UC500 S27 C6A U/FTP _p 4P LSHF GY 500DP | 1018934-00500DP | 60015514 | 60015516 |
| UC500 S27 C6A U/FTP _p 4P LSHF GY 1000DW | 1018934-01000DW | 60015514 | 60015518 |
| UC500 S27 C6A U/FTP _p 4P LSHF VT | 1026790 | 60022009 | 60022009 |
| UC500 S27 C6A U/FTP _p 4P LSHF VT 500DP | 1026790-00500DP | 60022009 | 60015522 |
| UC500 S27 C6A U/FTP _p 4P LSHF YE | 1023137 | 60015524 | 60015524 |
| UC500 S27 C6A U/FTP _p 4P LSHF YE 500DW | 1023137-00500DW | 60015524 | 60015526 |

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