

UC300 24 Cat. 5e LSHF D_{ca}

U/UTP AWG23/1 Installationskabel



Einsatzgebiete

Primär (Campus), Sekundär (Riser), Tertiär (Horizontal)
IEEE 802.3: 10 Base-T; 100 Base-T; 1000 Base-T ;
IEEE 802.5 16 MB ; ISDN ; TPDDI ; ATM
Power over Ethernet (PoE) / PoE+

Geltende Normen

EIA/TIA 568 C.2
ISO/IEC 11801.; IEC 61156-5
EN 50173.; EN 50288-3-1
IEEE 802.3at

Flammwidrigkeit

EN 50399: Class D_{ca}s2d2a1; Class E_{ca}
LSHF (LSOH): IEC 60332-1; IEC 60754-2; IEC 61034

Kabelaufbau

| | |
|------------------|---|
| Leiter | Cu-Draht, blank Ø 0,5 (AWG24/1) |
| Isolierung | Polyethlen, Ø 0,9 mm |
| Verseilung | 2 Adern zum Paar |
| Seelenbewicklung | 4 Paare zur Seele |
| Schutzmantel | LSHF D _{ca} (FRNC, LSOH), RAL 7035 |

Mechanische Eigenschaften

| | | |
|---------------------------|-------------------|-------------------|
| Biegeradien | ohne Zugbelastung | 4 x D |
| | mit Zugbelastung | 8 x D |
| Betriebstemperaturbereich | ruhend | - 20°C bis + 60°C |
| | bewegt | 0°C bis + 50°C |

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Elektrische Eigenschaften

bei 20°C ± 5°C

| | | |
|--|------------|-------------------|
| Schleifenwiderstand | | ≤ 192 Ω/km |
| Widerstandsunsymmetrie | | ≤ 2% |
| Isolationswiderstand | 500 V | ≥ 2000 MΩ*km |
| Kapazität | bei 800 Hz | Nom. 48 nF/km |
| Kapazitätsunsymmetrie | Paar/Erde | ≤ 1500 pF/km |
| Mittlerer Wellenwiderstand | 100 MHz | 100 ± 5 Ω |
| Relative Ausbreitungsgeschwindigkeit | | Ca. 67% |
| Signallaufzeit | | ≤ 535 ns/100m |
| Laufzeitunterschied | | ≤ 20 ns/100m |
| Prüfspannung Ader / Ader Kopplungsdämpfung | DC, 1 min | 1000 V ≥ 40 dB |

Elektrische Daten (nominal)

gem. Cat.5e bei 20°C

| F (MHZ) | Dämpfung (dB/100m) | NEXT (dB) | PS-NEXT (dB) | ACR (dB/100m) | PS-ACR (dB/100m) | ACRF (dB/100m) | PS-ACRF (dB/100m) | Rückflußdämpfung (dB) |
|---------|--------------------|-----------|--------------|---------------|------------------|----------------|-------------------|-----------------------|
| 1 | 1,9 | 71 | 68 | 69,1 | 66,1 | 68 | 65 | 20 |
| 4 | 3,7 | 62 | 59 | 58,3 | 55,3 | 56 | 53 | 23 |
| 10 | 6 | 56 | 53 | 50 | 47,0 | 48 | 45 | 25 |
| 16 | 7,6 | 53 | 50 | 45,4 | 42,4 | 44 | 41 | 25 |
| 20 | 8,5 | 51 | 48 | 42,5 | 39,5 | 42 | 39 | 25 |
| 31,2 | 10,7 | 49 | 46 | 38,3 | 35,3 | 38 | 35 | 24 |
| 62,5 | 15,7 | 44 | 41 | 28,3 | 25,3 | 32 | 29 | 22 |
| 100 | 19,8 | 41 | 38 | 21,2 | 18,2 | 28 | 25 | 20 |
| 125 | 22,3 | 40 | 37 | 17,7 | 14,7 | 26 | 23 | 19 |
| 155,5 | 24,2 | 38 | 35 | 13,8 | 10,8 | 24 | 21 | |
| 175 | 25,7 | 37 | 34 | 11,3 | 8,3 | 23 | 20 | |
| 200 | 27,5 | 36 | 33 | 8,5 | 5,5 | 22 | 19 | |
| 250 | 29,5 | 35 | 32 | 5,8 | 2,8 | 20 | 17 | |
| 300 | 32,0 | 34 | 31 | 2,0 | -1,0 | 16 | 13 | |

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Technische Angebotsdaten

| Produkt Referenz Code | Kurzbezeichnung | Produktname | Außen-durch-messer mm | Euro Class | Brandlast | | Gewicht kg/km | Cu-Zahl kg/km | Zugkraft N |
|-----------------------|-----------------|---|--------------------------|------------------------|-----------|-------|------------------|------------------|---------------|
| | | | | | MJ/km | kWh/m | | | |
| 60060056 | J-2YH 4x2x0.5 | UC300 24 Cat.5e U/UTP LSHF D _{ca} | 5.1 | D _{ca} s2d2a1 | 336 | 0.101 | 36 | 17.5 | 100N |
| 60060061 | | UC300 24 Cat.5e U/UTP LSHF D _{ca} 305BR | | | | | | | |
| 60060063 | | UC300 24 Cat.5e U/UTP LSHF D _{ca} 500DW | | | | | | | |
| 60060062 | | UC300 24 Cat.5e U/UTP LSHF D _{ca} 1000DW | | | | | | | |

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