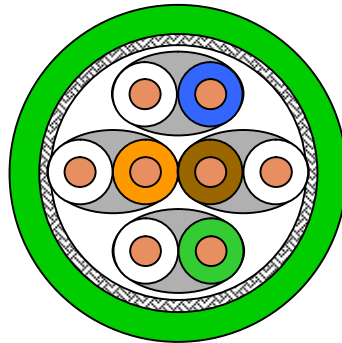


UC900 SS23 Cat.7 PUR

S/FTP



Application

Primär (Campus), Sekundär (Riser), Tertiär (Horizontal)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; **10GBase-T**
IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Standards

EN 50173-1; EN 50288-4-1
ISO/IEC 11801; IEC 61156-5

Oil resistance

Acc. VDE 0282-2 (mineral oil IRM 902 acc. ISO 1817)

Construction

| | |
|--------------|--------------------------------------|
| Conductor | bare copper wire, Ø 0.56 mm (AWG 23) |
| Insulation | foamskin PE, Ø 1.4 mm |
| Twisting | 2 cores to the pair |
| Pair screen | Al-laminated plastic foil |
| Cable lay up | 4 pairs (PiMF) to the core |
| Screen | copper braid, tinned |
| Sheath | PUR, green RAL 6018, oil resistant |

Mechanical properties

| | | |
|-------------------|---------------------|-----------------|
| Bending radius | without load | ≥ 30 mm |
| | with load | ≥ 60 mm |
| Temperature range | during operation | -30°C to + 75°C |
| | during installation | 0°C to + 50°C |

UC900 SS23 Cat.7 PUR

Electrical properties

at 20°C ± 5°C

| | | |
|---------------------------------|---------------------------------------|---------------|
| Loop resistance | | ≤ 150 Ω/km |
| Resistance unbalance | | ≤ 2% |
| Insulation resistance | (500 V) | ≥ 5000 MΩ*km |
| Mutual capacitance | at 800 Hz | Nom. 43 nF/km |
| Capacitance unbalance | (pair/ground) | ≤ 1500 pF/km |
| Characteristic impedance | (1-100 MHz) | (100 ± 5) Ω |
| | (100 - 250) MHz | (100 ± 10) Ω |
| | (250 - 600) MHz | (100 ± 15) Ω |
| Nominal velocity of propagation | | ca. 79 % |
| Propagation delay | | ≤ 425 ns/100m |
| Delay skew | | ≤ 9 ns/100m |
| Test voltage | (DC, 1 min) core/core and core/screen | 1000 V |
| Transfer impedance | at 1 MHz | 5 mΩ/m |
| | at 10 MHz | 5 mΩ/m |
| | at 30 MHz | 10 mΩ/m |
| | at 100MHz | 20 mΩ/m |
| Coupling attenuation | | 85 dB |

Electrical data (nominal)

acc. to Cat.7 (at 20°C)

| F (MHZ) | Attenuation (dB/100m) | NEXT (dB) | PS-NEXT (dB) | ACR (dB/100m) | PS-ACR (dB/100m) | ELFEXT (dB/100m) | PS-ELFEXT (dB/100m) | Return loss (dB) |
|---------|-----------------------|-----------|--------------|---------------|------------------|------------------|---------------------|------------------|
| 1.0 | 1.8 | 100 | 97 | 98 | 95 | 105 | 105 | - |
| 4.0 | 3.4 | 100 | 97 | 97 | 94 | 105 | 102 | 27 |
| 10.0 | 5.4 | 100 | 97 | 95 | 92 | 97 | 94 | 30 |
| 16.0 | 6.8 | 100 | 97 | 93 | 90 | 93 | 90 | 30 |
| 20.0 | 7.7 | 100 | 97 | 92 | 89 | 91 | 88 | 30 |
| 31.2 | 9.6 | 100 | 97 | 90 | 87 | 87 | 84 | 30 |
| 62.5 | 13.7 | 100 | 97 | 86 | 83 | 81 | 78 | 30 |
| 100.0 | 17.4 | 100 | 97 | 83 | 80 | 77 | 74 | 30 |
| 125.0 | 19.5 | 95 | 92 | 75 | 72 | 75 | 72 | 26 |
| 155.5 | 21.9 | 94 | 91 | 72 | 69 | 73 | 70 | 26 |
| 175.0 | 23.3 | 93 | 90 | 70 | 67 | 72 | 69 | 25 |
| 200.0 | 25.0 | 92 | 89 | 67 | 64 | 71 | 68 | 25 |
| 250.0 | 28.1 | 90 | 87 | 62 | 59 | 69 | 66 | 24 |
| 300.0 | 30.9 | 89 | 86 | 58 | 55 | 67 | 64 | 24 |
| 450.0 | 38.3 | 87 | 84 | 48 | 45 | 64 | 61 | 23 |
| 600.0 | 44.8 | 85 | 82 | 40 | 37 | 61 | 58 | 22 |
| 750.0 | 52.0 | 83 | 80 | 31 | 28 | 59 | 56 | 21 |
| 900.0 | 59.4 | 82 | 79 | 23 | 20 | 58 | 55 | 20 |
| 1000,0 | 63,1 | 80 | 77 | 17 | 14 | 57 | 54 | 20 |

UC900 SS23 Cat.7 PUR

Technical data

| Product code | Cable type | Brand name | Outer diameter | Fire load | | Weight kg/km | Copper content | Tensile force |
|--------------|-----------------------------|----------------------------------|----------------|-----------|-------|-----------------|----------------|---------------|
| | | | mm | MJ/km | kWh/m | | | N |
| 1005232 | J-02YSC11Y 4x2x0.56 PiMF | UC900 SS23 Cat.7 S/FTP 4P PUR | 7.5 | 866 | 0.24 | 56 | 38 | 340 |

Product Code Table

| Product Description | Product Code | PG Reference Code | PG Part Number |
|--------------------------------------|-----------------|-------------------|-----------------|
| UC900 SS23 C7 S/FTP 4P PUR GN | 1005232 | 60015294 | 60015294 |
| UC900 SS23 C7 S/FTP 4P PUR GN 500DW | 1005232-00500DW | 60015294 | 60015297 |
| UC900 SS23 C7 S/FTP 4P PUR GN 1000DW | 1005232-01000DW | 60015294 | 60015299 |

© PRYSMIAN GROUP 2016, All Rights Reserved

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group: any modification or alteration afterwards of product may give different result.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.