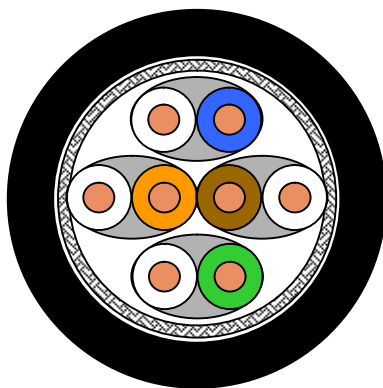


# ICS IE UC900 SS23 Cat.7 PE

## S/FTP Installationskabel



### Einsatzgebiete

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T, **10GBase-T**  
 IEEE 802.5 16 MB; ISDN; TPDDI; ATM  
 Power over Ethernet (PoE) / PoE+

### Geltende Normen

ISO/IEC 11801.; EN 50173-1;  
 in Anlehnung an IEC 61156-5 und EN 50288-4-1  
 IEEE 802.3at

### Kabelaufbau

|                      |   |
|----------------------|---|
| Leiter               | Cu-Draht, blank Ø 0,56 mm (AWG23)   |
| Isolierung           | Foam-Skin Polyethylen, Ø 1,4 mm   |
| Verseilung           | 2 Adern zum Paar  |
| Paarabschirmung      | Aluminium-beschichtete Kunststoff-Verbundfolie                            |
| Verseilung zur Seele | 4 Paare (PiMF) zur Seele  |
| Gesamtabschirmung    | Cu-Geflecht verzinkt ( ca. 65% Bedeckung )                                |
| Bewicklung           | Kunststoffolie  |
| Schutzmantel         | PE, schwarz, Wdd. 1,2 mm, geeignet für direkte Erdverlegung, UV-beständig |

### Mechanische Eigenschaften

|                           |                   |                  |
|---------------------------|-------------------|------------------|
| Biegeradien               | ohne Zugbelastung | ≥ 40 mm          |
|                           | mit Zugbelastung  | ≥ 80 mm          |
| Betriebstemperaturbereich | ruhend            | -55°C bis + 60°C |
|                           | bewegt            | -20°C bis + 50°C |

## ICS IE UC900 SS23 Cat.7 PE

### Elektrische Eigenschaften

bei 20°C ± 5°C

|                                      |             |               |
|--------------------------------------|-------------|---------------|
| Schleifenwiderstand                  |             | ≤ 165 Ω /km   |
| Widerstandsunsymmetrie               |             | ≤ 2%          |
| Isolationswiderstand                 | 500 V       | ≥ 5000 MΩ *km |
| Kapazität                            | bei 800 Hz  | Nom. 43 nF/km |
| Kapazitätsunsymmetrie                | Paar/Erde   | ≤ 1500 pF/km  |
| Mittlerer Wellenwiderstand           | bei 100 MHz | 100 ± 15 Ω    |
| Relative Ausbreitungsgeschwindigkeit |             | ca. 79 %      |
| Signallaufzeit                       |             | ≤ 427 ns/100m |
| Laufzeitunterschied                  |             | ≤ 12 ns/100m  |
| Prüfspannung                         | DC, 1 min   | 1000 V        |
| Kopplungswiderstand                  | bei 1 MHz   | ≤ 10 mΩ /m    |
|                                      | bei 10 MHz  | ≤ 10 mΩ /m    |
|                                      | bei 30 MHz  | ≤ 30 mΩ /m    |
|                                      | bei 100MHz  | ≤ 60 mΩ /m    |
| Kopplungsdämpfung                    |             | ≥ 85 dB       |

### Elektrische Daten (nominal)

gem. Cat.7 (bei 20°C)

| f      | Dämpfung | NEXT | PS-NEXT | ACR     | PS-ACR   | ELFEXT  | PS-ELFEXT | Rückfluß-dämpfung |
|--------|----------|------|---------|---------|----------|---------|-----------|-------------------|
| MHz    | dB/100 m | dB   | dB      | dB/100m | dB/100 m | dB/10 m | dB/10 m   | dB                |
| 1      | 1,8      | 100  | 97      | 98      | 95       | 105     | 105       | -                 |
| 4      | 3,4      | 100  | 97      | 97      | 94       | 105     | 102       | 27                |
| 10     | 5,4      | 100  | 97      | 95      | 92       | 97      | 94        | 30                |
| 16     | 6,8      | 100  | 97      | 93      | 90       | 93      | 90        | 30                |
| 20     | 7,7      | 100  | 97      | 92      | 89       | 91      | 88        | 30                |
| 31,2   | 9,6      | 100  | 97      | 90      | 87       | 87      | 94        | 30                |
| 62,5   | 13,7     | 100  | 97      | 86      | 83       | 81      | 78        | 30                |
| 100    | 17,4     | 100  | 97      | 83      | 80       | 77      | 74        | 30                |
| 125    | 19,5     | 95   | 92      | 75      | 72       | 75      | 72        | 26                |
| 155,5  | 21,9     | 94   | 91      | 72      | 69       | 73      | 70        | 26                |
| 175    | 23,3     | 93   | 90      | 70      | 67       | 72      | 69        | 25                |
| 200    | 25,0     | 92   | 89      | 67      | 64       | 71      | 68        | 25                |
| 250    | 28,1     | 90   | 87      | 62      | 59       | 69      | 66        | 24                |
| 300    | 30,9     | 89   | 86      | 58      | 55       | 67      | 64        | 24                |
| 450    | 38,3     | 87   | 84      | 48      | 45       | 64      | 61        | 23                |
| 600    | 44,8     | 85   | 82      | 40      | 37       | 61      | 58        | 22                |
| 750    | 52,0     | 83   | 80      | 31      | 28       | 59      | 56        | 21                |
| 900    | 59,4     | 82   | 79      | 23      | 20       | 58      | 55        | 20                |
| 1000,0 | 63,1     | 80   | 77      | 17      | 14       | 57      | 54        | 20                |

## ICS IE UC900 SS23 Cat.7 PE

### Technische Angebotsdaten

| Artikelnummer | Kurzbezeichnung               | Produktname                        | Außendurchmesser nominal<br>mm | Gewicht<br>kg/km | Cu-Zahl | Zugkraft<br>N |
|---------------|-------------------------------|------------------------------------|--------------------------------|------------------|---------|---------------|
| 1001087       | A-02YSC2Y<br>4x2x0,56<br>PiMF | UC900 SS23<br>Cat.7 S/FTP 4P<br>PE | 8,4                            | 67               | 38      | 340           |

### Product Code Table

| Product Description              | Product Code    | PG Reference Code | PG Part Number  |
|----------------------------------|-----------------|-------------------|-----------------|
| UC900 SS23 C7 S/FTP 4P PE 500DW  | 1001087-00500DW | 60011278          | <b>60011276</b> |
| UC900 SS23 C7 S/FTP 4P PE 1000DW | 1001087-01000DW | 60011278          | <b>60011277</b> |
| UC900 SS23 C7 S/FTP 4P PE        | 1001087         | 60011278          | <b>60011278</b> |
| UC900 SS23 C7 S/FTP 4P PE 100RW  | 1001087-00100RW | 60011278          | <b>60015266</b> |
| UC900 SS23 C7 S/FTP 4P PE 50RW   | 1001087-00050RW | 60011278          | <b>60015269</b> |
| UC900 SS23 C7 S/FTP 4P PE 4000DO | 1001087-04000DO | 60011278          | <b>60025667</b> |

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