DATASHEET

ICS IE UC900 SS23 Cat.7 (L)H + armouring + PE, UV-resistant, black







General data

The data cable is an installation cable with a thick-walled polyethylene outer sheath and armouring, suitable for **direct burial**, **UV-resistant** Suitable for transmission rates up to **1000 MHz**. **A reinforcement of galvanized steel wire mesh serves as rodent protection.** Due to a LSZH-interjacket, the cable is suitable for the use inside the building after removing the PE-jacket. The cable exceeds the requirements of the category 7 and lower with the electrical transmission properties. Suitable for structured cabling of Class E, EA, F according to ISO/IEC 11801 (AMD 2:2009) resp. EN 50173-1 (2009). With this cable, transmission rates up to 10 GBit according to IEEE 802.3 are possible.

Allgemeine Daten	
AWG-size	23/1
Jacket Material	Polyethylene (PE)
Nominal cross section conductor	0.26 mm²
Core identification	Colour
UV resistance	yes

General data	
Halogen free	acc. EN 60754-1/2
Permitted cable outer temperature during assembling/handling	0 – 50 °C
Conductor category	Class 1 = solid
Category	7
Permitted cable outer temperature after assembling without vibration	-20 – 75 °C

This datasheet was created automatically on 27-07-2024 . Technical changes reserved.

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Stranding element	Pairs

Mechanical characteristics	
Bending radius (static)	≥ 80 mm
Bending radius (dynamic)	≥ 160 mm

Cable construction

Conductor material	Cu, tinned
Diameter conductor	0.56 mm
Cable Construction	S/FTP

Kabelaufbau

Armour	Galvanized steel wire braid

Cable sheath

Low smoke	acc. EN 61034
Flame retardant	acc. IEC 61034

Electrical characteristics	
Capacity to earth	nom. 43 nF/km
Delay skew	12 ns/100m
Transfer impedance at 100MHz	≤ 20 mOhm/m
Resistance unbalance	≤ 2 %
Transfer impedance at 1MHz	≤ 5 mOhm/m
Characteristic impedance	100 ± 5 Ohm
Separation class acc. EN50174-2	D
Loop resistance	≤ 154 Ohm/km
NVP value	79 %
Transfer impedance at 10MHz	≤ 5 mOhm/m
Transfer impedance at 30MHz	≤ 10 mOhm/m
Coupling attenuation	≤ 85 dB
Insulation resistance (500V)	≥ 5000 MOhm/km

Elektrische Eigenschaften	
Screen over stranding	braiding

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Test voltage DC, 1 min	1000 V
Core insulation	Foam-Skin-PE
Screen over stranding element	Foil
Max. Freuqency	900 MHz
PoE	acc. to IEEE802.3bt 4PPoE

Normen, Zulassungen, Zertifizierungen	
Cable	IEC 61156-5
Transmission standards	IEEE 802.3 10Mbit to 10Gbit

Standards, approvals, certifications	
Cabling standards	ISO/IEC 11801
Installation standard	EN 50174
Low smoke (according to EN 61034-2)	False
Halogen free (acc. EN 50267-2-2)	False
Halogen free (according to EN 60754-1/2)	True

Available variants

ArtNr.	Bezeichnung	Colour outer sheath	Length	Number of cores	RAL colour	Type	Cu-Zahl	Gewicht	Außendurchmesser ca.
99739.1	ICS IE UC900 SS23 Cat.7 (L)H + armouring + PE, UV-resistant, black	black	1.0 m	8	RAL9005	simplex	38 kg/km	228 kg/km	13,5 mm

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