DATASHEET

Cat.7 Outdoor cable UC900 SS23/1,4P PE, 100metres









General data

The Cat.7 outdoor cable DRAKA UC900 SS23/1 PETM in black is designed for high-performance network cabling outdoors. The S/FTP structure with polyethylene sheath supports stable data connections up to 900 MHz and is therefore suitable for modern installations with high bandwidth. The UV-resistant design in RAL 9005 complements the installation with a robust choice of material.

• 900 MHz Cat.7 bandwidth – Supports transmission standards from IEEE 802.3 10Mbit to 10Gbit and creates scope for high-performance outdoor cabling.
• S/FTP design with braid shielding – Reduces interference and supports stable signal quality in demanding network environments.
• UV-resistant PE sheath in black according to RAL 9005 – Suitable for outdoor use and complements the installation with a robust choice of materials.

The cable is designed as a simplex and uses 23/1 conductors with 8 wires. The dynamic bending radius of 80 mm makes installation easier. The braided shielding supports decoupling from external influences and the design is intended for PoE according to IEEE802.3af, PoE+ according to IEEE802.3at and 4PPoE according to IEEE802.3bt. The version without reinforcement is aimed at structured network environments.

Technical details
• Brand: DRAKA
• Category: 7
• Transmission standards: IEEE 802.3 10Mbit to 10Gbit
• Max. frequency: 900 MHz
• Cable construction: S/FTP
• PoE: after IEEE802.3af PoE, after IEEE802.3at PoE+, after IEEE802.3bt 4PPoE
• AWG cross-section/number of wires: 23/1

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- Number of cores: 8
- Type: simplex
- Sheath material: polyethylene (PE)
- Sheath colour: black
- RAL colour: RAL 9005
- Armour: without
- Bend radius (dynamic): 80 mm
- Directive/Regulation: RoHS 2011/65/UE
- Euroclass: none
- Shield over stranding: braid
- UV resistant: Yes

Technical properties	
AWG-size	23/1
Armour	none
Bending radius (dynamic)	80 mm
Cable	EN 50288-4-1 900
Cable silicone free	True
Cable structure	S/FTP
Cable type	Draka UC900 SS23 PE
Cabling standards	ISO/IEC 11801
Category	7
Characteristic impedance	100 ± 5 Ohm
Conductor category	Class 1 = solid
Conductor material	Copper, bare
Core identification	Colour
Core insulation	Foam-Skin-PE
Coupling attenuation	≤ 85 dB
Diameter conductor	0.56 mm
Directive/Regulation	RoHS 2011/65/UE
Euro class	none
Flame retardant	No
Halogen free	No
Harmonised Standard	EN 50575
Installation standard	EN 50174
Insulation resistance (500V)	≥ 5000 MOhm/km
Loop resistance	165 Ohm/km
Low smoke	nein
Material outer sheath	Polyethylene (PE)
Max. Freuqency	MHz MHz

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NVP value	79 %
Nominal cross section conductor	0.26 mm²
Operating capacity	43 pF/km
Operating temperature, fix	-55 – 60 °C
Operating temperature, flexible	-20 – 50 °C
Operating temperature, storage	-20 – 60 °C
PoE	acc. to IEEE802.3af PoE
Resistance unbalance	2 %
Screen over stranding	braiding
Screen over stranding element	Foil
Separation class acc. EN50174-2	D
Stranding element	Pairs
Test voltage DC, 1 min	1000 V
Transmission standards	IEEE 802.3 10Mbit bis 10Gbit
UV resistant	True

Available variants

ArtNr.	Bezeichnung	Colour outer sheath	Length	Number of cores	RAL colour	Type	Copper weight	Weight	Max. tractive force	Outer diameter approx.
99731.100	Cat.7 Outdoor cable UC900 SS23/1,4P PE, 100metres	black	100.0 m	8	RAL 9005	simplex	38 kg/km	95 kg/km	340 N	8.4 mm
99731.500	Cat.7 Outdoor cable UC900 SS23/1,4P PE, 500metres	black	500.0 m	8	RAL 9005	simplex	38 kg/km	95 kg/km	340 N	8.4 mm

Note on Intended Use

This data sheet is intended solely to describe the technical characteristics of the product. It does not replace an assessment of the product's suitability for a specific application. The user is responsible for ensuring that the product is used in accordance with its technical specifications and applicable legal and regulatory requirements.

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