

Cat.7 Outdoor cable UC900 SS23/1 PETM



Cat.7



Description

The data cable is an installation cable with a thick-walled polyethylene outer sheath, suitable for direct burial, UV-resistant and for transmission rates up to 1000 MHz. Exceeds the electrical transmission properties and requirements of the category 7 and lower. Suitable for structured cabling of Class E, EA, F and according to ISO/IEC11801 (AMD 2:2009) resp. EN50173-1 (2009). With this cable transmission rates up to 10 GBit according to IEEE 802.3 are possible.

General data

UV resistant | yes

Mechanical characteristics

Bending radius (dynamic) | ≥ 80 mm
 Bending radius (static) | ≥ 40 mm

Cable construction

Cable structure	S/FTP
Category	7
Conductor category	Class 1 = solid
Conductor material	Cu, blank
AWG-size/quantity of cores	23/1
Diameter conductor	0.56 mm
Nominal cross section conductor	0.26 mm ²
Screen over stranding	braiding
Stranding element	pairs
Screen over stranding element	foil

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Cable construction

Core insulation	foam-skin PE
Core identification	colour

Cable sheath

Material outer sheath	PE
Flame retardant	no

Environmental conditions

Operating temperature, flexible	-20 – 50 °C
Operating temperature, fix	-55 – 60 °C

Electrical characteristics

PoE	yes
NVP value	79 %
Loop resistance	≤ 165 Ohm/km
Resistance unbalance	≤ 2 %
Insulation resistance (500V)	≥ 5000 MOhm/km
Test voltage DC, 1 min	1000 V
Capacity to earth	nom. 43 nF/km
Impedance	100 ± 25 Ohm
Delay skew	≤ 12 ns/100m
Transfer impedance at 1MHz	≤ 10 mOhm/m
Transfer impedance at 10MHz	≤ 10 mOhm/m
Transfer impedance at 30MHz	≤ 30 mOhm/m
Transfer impedance at 100MHz	≤ 60 mOhm/m
Coupling attenuation	≥ 85 dB
Max. Frequency	900 MHz

Standards, approvals, certifications

Cabling standards	EN 50173-1;ISO/IEC 11801;IEC 61156-5;EN 50288-4-1
Harmonised Standard	EN 50575
Transmission standards	IEEE 802.3 10Mbit to 10Gbit

Available variants

Article no.	Title	Length	Colour outer sheath	RAL colour	Number of cores	Type	Outer diameter approx.	Copper weight	Weight	Max. tractive force
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99731.100	Cat.7 Outdoor cable UC900 SS23/1,4P PE, 100metres	100.0 m	black	9005	8	simplex	8.4 mm	38 kg/km	95 kg/km	340 N
99731.500	Cat.7 Outdoor cable UC900 SS23/1,4P PE, 500metres	500.0 m	black	9005	8	simplex	8.4 mm	38 kg/km	95 kg/km	340 N

Technical drawings

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