

Cat.7 Indoor/Outdoor cable 1200MHz AWG23 S/FTP



Description

The Cat.7 S/FTP indoor/outdoor cable is characterised by the cable construction 4x2xAWG23/1 and achieves a transmission frequency of up to 1200 MHz. The cable has a PE outer sheath and a halogen-free inner sheath and conforms to the IEC 60332-1 standard and Construction Products Regulation (BauPVO) Euroclass Dca. The cable is suitable for installations in dry or damp rooms, outdoors or underground. Conforms to the standards ISO/IEC 11801, DIN EN 50173, DIN EN 50288-4-1.

General data

UV resistant | yes

Mechanical characteristics

Bending radius (dynamic) | 8 x OD

Bending radius (static) | 7 x OD

Cable construction

Cable structure	S/FTP
Category	7
Conductor category	K1.1 = single wire
Conductor material	CU, tinned
AWG-size/quantity of cores	23/1
Diameter conductor	0.56 mm
Screen over stranding	foil + braid
Stranding element	pairs
Screen over stranding element	foil + braid
Core insulation	foam-skin PE
Core identification	colour

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Cable sheath

Material outer sheath	PE + LSZH
Flame retardant	acc. EN 60332-1;acc. IEC 60754-2;acc. IEC 61034
Halogen free	acc. EN 60754-1/2;acc. EN 60754
Low smoke	acc. EN 61034

Environmental conditions

Operating temperature, flexible	0 – 50 °C
Operating temperature, fix	-30 – 70 °C
Operating temperature, storage	-30 – 70 °C

Electrical characteristics

PoE	acc. to IEEE 802.3at;acc. to IEEE 802.3af;yes;PoE+;UPoE
NVP value	76 %
Loop resistance	171.2 Ohm/km
Impedance	100 ± 15 Ohm
Separation class acc. EN50174-2	D
Coupling attenuation Type	type 1
Coupling attenuation	80 dB
Max. Frequency	1200 MHz

Standards, approvals, certifications

Cabling standards	EN 50173-1;ISO/IEC 11801
Installation standard	EN 50174
Directive/Regulation	RoHS 2011/65/UE;REACH 1907/2006/EC
Transmission standards	IEEE 802.3 10Mbit to 10Gbit
Cable	EN 50288-4-1;IEC 61156-5

Available variants

Article no.	Title	Length	Colour outer sheath	Number of cores	Type	Outer diameter approx.	Copper weight	Weight	Max. tractive force	Fire load
99733.1-CPR	Cat.7 In-/Outdoor cable 1200MHz AWG23 S/FTP,PE jacket, inner Dca, Sw& Or,1000m	1.0 m	black	8	simplex	8.4 mm	44 kg/km	132 kg/km	100 N	1200 MJ/km

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Article no.	Title	Length	Colour outer sheath	Number of cores	Type	Outer diameter approx.	Copper weight	Weight	Max. tractive force	Fire load
99733.500-CPR	Cat.7 In-/Outdoor cable 1200MHz AWG23 S/FTP,PE jacket, inner Dca, Sw& Or,500m	500 m	black	8	simplex	8.4 mm	44 kg/km	132 kg/km	100 N	1200 MJ/km
99733.250-CPR	Cat.7 In-/Outdoor cable 1200MHz AWG23 S/FTP,PE jacket, inner Dca, Sw& Or,250m	250 m	Black	8	simplex	8.4 mm	44 kg/km	132 kg/km	100 N	1200 MJ/km
99733.100-CPR	Cat.7 In-/Outdoor cable 1200MHz AWG23 S/FTP,PE jacket, inner Dca, Sw& Or,100m	100 m	black	8	simplex	8.4 mm	44 kg/km	132 kg/km	100 N	1200 MJ/km
99733.50-CPR	Cat.7 In-/Outdoor cable 1200MHz AWG23 S/FTP,PE jacket, inner Dca, Sw& Or,50m	50 m	black	8	simplex	8.4 mm	44 kg/km	132 kg/km	100 N	1200 MJ/km
99733.25-CPR	Cat.7 In-/Outdoor cable 1200MHz AWG23 S/FTP,PE jacket, inner Dca, Sw& Or,25m	25 m	black	8	simplex	8.4 mm	44 kg/km	132 kg/km	100 N	1200 MJ/km

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Technical drawings

Performance				
Frequency (MHz)	Attenuation (dB/100m) Max.	NEXT (dB) Min.	PSNEXT (dB) Min.	Return loss (dB) Min.
4	3,7	78,0	75,0	23,0
10	5,9	78,0	75,0	25,0
16	7,4	78,0	75,0	25,0
31,25	10,4	78,0	75,0	23,6
62,5	14,9	75,5	72,5	21,5
100	19,0	72,4	69,4	20,1
250	31,0	66,4	63,4	17,3
500	45,3	61,9	58,9	17,3
600	50,1	60,7	57,7	17,3
900	63,0	58,1	55,1	13,4
1000	66,9	57,4	54,4	13,1

Frequency (MHz)	ACR-F (dB/100m) Min.	PSACR-F (dB/100m) Min.	ACR-N (dB/100m) Min.	PSACR-N (dB/100m) Min.
4	78,0	75,0	74,3	71,3
10	78,0	75,0	72,1	69,1
16	71,2	68,2	70,6	67,6
31,25	65,4	62,4	67,6	64,6
62,5	59,4	56,4	60,6	57,6
100	55,3	52,3	53,4	50,4
250	47,3	44,3	35,5	32,5
500	41,3	38,3	16,7	13,7
600	39,7	36,7	10,6	7,6
900	36,2	33,2	-4,9	-7,9
1000	35,3	32,3	-9,5	-12,5

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accessory

E-20070	RJ45 Keystone STP, Cat.6A, 500MHz, components certified
E-20095	RJ45 Keystone STP, Cat.6A, 500MHz, Slimline
E-20091	RJ45 Keystone STP, Cat.6A, 500MHz, components certified, earthing
E-200100	RJ45 Keystone Slimline, Cat.6A, zinc alloy
E-20092	RJ45 Keystone STP, Cat.8 Class 1

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