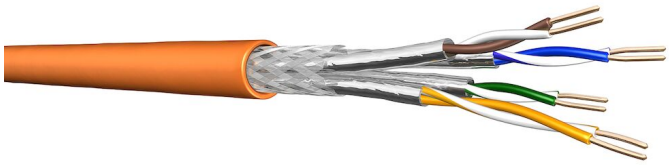
UC900 SS23 Cat.7 S/FTP 4P LSHF-FR C_{ca}

Data horizontal cable Cat.7 S/FTP



CABLE FEATURES

Prysmian installation cable for indoor use UC900 SS23 Cat.7 S/FTP 4P LSHF-FR Cca

- Copper data cable of Cat.7 for structured cabling with a bandwidth of 1000 MHz.
- The cable is double-shielded with foil pair shielding and high-quality braided cover.
- The 4-pair simplex installation cable with 8 copper wires AWG23 is suitable for the connection of sockets, patch fields and modules, also with IDC technology, for installation in buildings, in ducts and flush mounting
- The product exceeds the requirements of EN50173-1; EN50288-4-1, ISO/IEC11801; IEC61156-5 and IEEE802.3af/at/bt.
- The jacket is made of halogen-free, flame-retardant material according to IEC60332-1; IEC60332-3-24; IEC60754-2; IEC61034, EN50399 especially for use in public buildings with high personal risk, in the Euro fire class Cca s1a d1 a1.
- With a coupling attenuation of 85 dB, the shielding fulfills segregation class D according to EN50174.
- The cable is future-proof for all applications according to Class C, D, E, EA and F and suitable for the operation of PoE and PoE+ over a channel length of up to 100m. It is suitable for the following applications: Telephony, Ethernet, Fast Ethernet, Gigabit Ethernet and 10Gigabit Ethernet, 10BaseT, 100BaseT, 1000BaseT, 1GBase-T, 10GBaseT or up to 10,000Mbit/s.

Latest version of this data sheet is available for download: ProductFamily359470

GENERAL INFO

Primary (Campus), Secondary (Riser), Tertiary (Horizontal); IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T; IEEE802.5 ; ISDN, TPDDI, ATM, CATV, IP Cameras, Broadband Video, SOHO-Cabling; Power over Ethernet (PoE) / Type 1-4

CERTIFICATIONS AND DESIGN STANDARDS

IEC 61156-5	Datacom cables
EN 50288-4-1	Datacom cables up to 600 MHz
ISO/IEC 11801	Generic telecom cabling for customer premises
EN 50173	Information technology - Generic cabling systems
EN 50399 Class B2ca-s1a-d1-a1	Common test methods for cables under fire conditions

CABLE CONSTRUCTION

Conductor category	Class 1 = solid
Conductor material	Copper
Conductor surface	Bare
AWG size	23
Core insulation material	Foam-skin-PE
Nominal diameter over insulation [mm]	1.4
Screen over stranding element	Foil
Number of stranding elements	4
Identification of stranding elements	Core colors: blue/white; orange/white; green/white; brown/white
Screen material	Copper, tinned
Screen over stranding	Braiding
Material outer sheath	Halogenfree polymer
Cable shape	Round
Nominal outer diameter [mm]	7.3

APPLICATION PROPERTIES

Operation temperature (min) [°C]	-20	(max) [°C]	60
Installation temperature (min) [°C]	0	(max) [°C]	50
Bending radius (rule)	Installation: 8 x outer diameter; Installed: 4 x outer diameter		

FIRE PROPERTIES

Flame retardant	In accordance with EN/IEC 60332-3-24
Halogen free	acc. IEC/EN 60754-1/2
Low smoke	acc. IEC/EN 61034-2
Reaction-to-fire class (acc. EN 13501-6)	Cca
Smoke development class (acc. EN 13501-6)	s1a
Euro class flaming droplets/particles (acc. EN 13501-6)	d1
Euro class acidity (acc. EN 13501-6)	a1
Fire load [MJ/km]	590
DOP number	1012532

ELECTRICAL PROPERTIES

Test voltage [kV]	1
Category	7
NVP value [%]	79
Propagation delay (max) [ns/100m]	427
Delay skew (max) [ns/100m]	12
Characteristic impedance [Ohm]	100
Nominal mutual capacitance [pF/m]	43
Loop resistance [Ohm]	154
Coupling attenuation [dB]	85
Insulation resistance [MΩ·km]	5,000
Transfer impedance at 10 MHz [mOhm/m]	5
Segregation classification (acc. EN 50174-2)	d

PRODUCT ORDER DATA

Product name	Nominal outer diameter [mm]	Max. tensile strength during installation [kN]	Copper weight [kg/km]	SAP code	Packaging type	Standard packaging quantity	Gross weight
UC900 SS23 Cat.7 S/FTP 4P LSHF-FR Cca	7.3	0.15	38	60060629	Drum	1,000	67.646
UC900 SS23 Cat.7 S/FTP 4P LSHF-FR Cca	7.3	0.15	38	60091660	Drum	1	
UC900 SS23 Cat.7 S/FTP 4P LSHF-FR Cca	7.3	0.15	38	60091661	Coil	100	6.355
UC900 SS23 Cat.7 S/FTP 4P LSHF-FR Cca	7.3	0.15	38	60091662	Coil	200	12.709
UC900 SS23 Cat.7 S/FTP 4P LSHF-FR Cca	7.3	0.15	38	60091664	Drum	250	16.508
UC900 SS23 Cat.7 S/FTP 4P LSHF-FR Cca	7.3	0.15	38	60091940	Drum	500	33.773
UC900 SS23 Cat.7 S/FTP 4P LSHF-FR Cca	7.3	0.15	38	60091665	Carton box	250	14.708
UC900 SS23 Cat.7 S/FTP 4P LSHF-FR Cca	7.3	0.15	38	60091666	Drum	4,000	285.331

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CAT.7 TRANSMISSION CHARACTERISTICS (AT 20°C)

Frequency (MHz)	Attenuation (dB/100 m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100 m)	PS-ACR (dB/100 m)	ACRF (dB/100m)	PS-ACRF (dB)	Return Loss (dB)
1	1.8	100	97	98	95	105	102	-
4	3.3	100	97	97	94	105	102	27
10	5.2	100	97	95	92	97	94	30
16	6.6	100	97	93	90	93	90	30
20	7.4	100	97	93	90	91	88	30
31.2	9.3	100	97	91	88	87	84	30
62.5	13.4	100	97	87	84	81	78	30
100	17.2	100	97	83	80	77	74	30
125	19.4	95	92	76	73	75	72	26
155.5	21.8	94	91	72	69	73	70	26
175	23.3	93	90	70	67	72	69	25
200	25.1	92	89	67	64	71	68	25
250	28.4	90	87	62	59	69	66	24
300	31.4	89	86	58	55	67	64	24
450	39.5	87	84	48	45	64	61	23
600	46.6	85	82	38	35	61	58	22
750	53.2	83	80	30	27	59	56	21
900	59.2	82	79	23	20	58	55	20