

## UC300 24 Cat.5e U/UTP 4P LSHF D<sub>ca</sub>

Data horizontal cable Cat.5e U/UTP



Dca  
CPR

### CABLE FEATURES

Prysmian installation cable for indoor use UC300 24 Cat.5e U/UTP LSHF Dca

- Copper data cable of Cat.5e for structured cabling with a bandwidth of 300 MHz.
- the cable is unshielded.
- The 4-pair simplex installation cable with 8 copper wires AWG24 is suitable for connecting sockets, patch fields and modules, also with IDC technology, for laying in buildings, in ducts and flush-mounted
- the product exceeds the requirements of EN50173-1; EN50288-3-1, ISO/IEC11801; IEC61156-5 and IEEE802.3af/at/bt.
- The jacket is made of halogen-free, flame-retardant material according to IEC60332-1; IEC60754-2; IEC61034; EN50399 and Euro fire class Dca s2 d2 a1.
- the product fulfills segregation class B according to EN50174 with a coupling attenuation of 40 dB.
- The cable is future-proof for all class C and D applications and suitable for operating PoE and PoE+ over a channel length of up to 100m. It is suitable for the following applications: Telephony, Ethernet, Fast Ethernet and Gigabit Ethernet, 10BaseT, 100BaseT, 1000BaseT, 1GBase-T or up to 1,000 Mbit/s.

Latest version of this data sheet is available for download: [ProductFamily239012](#)

### GENERAL INFO

Primary (Campus), Secondary (Riser), Tertiary (Horizontal) IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T; IEEE 802.5 ISDN, TPDDI, ATM, CATV, IP Cameras, Broadband Video, SOHO-Cabling; Power over Ethernet (PoE) / Type 1-4

### CERTIFICATIONS AND DESIGN STANDARDS



IEC 61156-5  
EN 50288-2-1

Datcom cables  
Data communications cable shielded up to 100MHz

## CABLE CONSTRUCTION

Conductor category	Class 1 = solid
Conductor material	Copper
Conductor surface	Bare
AWG size	24
Core insulation material	Polyethylene (PE)
Nominal diameter over insulation [mm]	0.9
Screen over stranding element	None
Number of stranding elements	4
Identification of stranding elements	Core colors: blue/white; orange/white; green/white; brown/white
Screen material	Not applicable
Screen over stranding	None
Material outer sheath	Halogenfree polymer
Cable shape	Round
Nominal outer diameter [mm]	4.8

## 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 60332-1-2
Halogen free	acc. IEC/EN 60754-1/2
Low smoke	acc. IEC/EN 61034-2
Reaction-to-fire class (acc. EN 13501-6)	Dca
Smoke development class (acc. EN 13501-6)	s2
Euro class flaming droplets/particles (acc. EN 13501-6)	d2
Euro class acidity (acc. EN 13501-6)	a1
Fire load [MJ/km]	365
DOP number	1002444

## ELECTRICAL PROPERTIES

Test voltage [kV]	1
Category	5E
NVP value [%]	67
Propagation delay (max) [ns/100m]	535
Delay skew (max) [ns/100m]	20
Characteristic impedance [Ohm]	100
Nominal mutual capacitance [pF/m]	48
Loop resistance [Ohm]	190
Coupling attenuation [dB]	40
Insulation resistance [ $M\Omega \cdot km$ ]	5,000
Transfer impedance at 10 MHz [mOhm/m]	
Segregation classification (acc. EN 50174-2)	b

## CAT 5E 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	1.9	71	68	69	66	64	61	-
4	3.7	62	59	58	55	52	49	20
10	5.8	56	53	50	47	44	41	20
16	7.4	53	50	46	43	40	37	25
20	8.3	52	49	44	41	38	35	25
31.2	10.5	49	46	38	35	34	31	24
62.5	15	44	41	29	26	28	25	22
100	19.2	41	38	22	19	24	21	20
125	21.7	40	37	18	15	22	19	19
155	24.3	38	35	14	11	20	17	
175	26	38	35	12	9	19	16	
200	27.9	37	34	9	6	18	15	
250	31.5	35	32	4	1	16	13	
300	34.9	34	31	-1	-4	14	11	

## 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
UC300 24 Cat.5e U/UTP LSHF Dca	4.8	0.1	17.5	60060061	Carton box	305	8.47
UC300 24 Cat.5e U/UTP LSHF Dca	4.8	0.1	17.5	60060063	Drum	500	15.02
UC300 24 Cat.5e U/UTP LSHF Dca	4.8	0.1	17.5	60060062	Drum	1,000	28.6

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