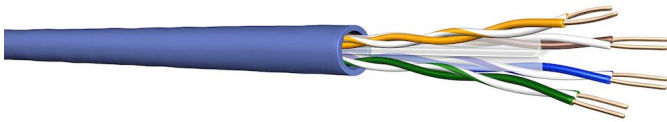


## UC400 Cat.6 U/UTP HD 4P PVC E<sub>ca</sub>

Data horizontal cable Cat.6 U/UTP



Eca  
CPR

### CABLE FEATURES

Prysmian installation cable for indoor use UC400 Cat.6 U/UTP HD PVC Eca

- Copper data cable of category 6 for structured cabling with a bandwidth of 400 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; EN50288-6-1, ISO/IEC11801; IEC61156-5 and IEEE802.3af/at/bt.
- The jacket is made of flame-retardant PVC according to IEC60332-1 and Euro fire class Eca.
- the product fulfills segregation class B according to EN50174 with a coupling attenuation of 40 dB.
- The cable is future-proof for all applications according to Class C, D, and E 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 and Gigabit Ethernet, 10BaseT, 100BaseT, 1000BaseT, 1GBase-T or up to 1,000Mbit/s.

Latest version of this data sheet is available for download: [ProductFamily238692](#)

### GENERAL INFO

UC400 C6 U/UTP HD PVC

### CERTIFICATIONS AND DESIGN STANDARDS



**ISO/IEC 11801**  
**IEC 61156-5**  
**IEEE 802.3 af/at/bt**

Generic telecom cabling for customer premises  
Datacom cables  
Power over Ethernet (PoE) / Type 1-4 according to IEEE 802.3 af/at/bt

## 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]	1
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	Polyvinyl chloride (PVC)
Cable shape	Round
Nominal outer diameter [mm]	5,4

## 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	No
Low smoke	No
Reaction-to-fire class (acc. EN 13501-6)	Eca
Smoke development class (acc. EN 13501-6)	Not applicable
Euro class flaming droplets/particles (acc. EN 13501-6)	Not applicable
Euro class acidity (acc. EN 13501-6)	Not applicable
Fire load [MJ/km]	316
DOP number	1001018

## ELECTRICAL PROPERTIES

Test voltage [kV]	1
Category	6
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]	176
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 6 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	2.1	75	72	73	70	82	79	22
4	3.8	66	63	62	59	70	67	25
10	6	60	57	54	51	62	59	27
16	7.6	57	54	49	46	58	55	27
20	8.5	56	53	48	45	56	53	27
31.2	10.7	53	50	42	39	52	49	26
62.5	15.5	48	45	32	29	46	43	24
100	19.9	45	42	25	22	42	39	22
125	22.5	44	41	22	19	40	37	21
155.5	25.3	42	39	17	14	38	35	21
175	27.1	42	39	15	12	37	34	20
200	29.1	41	38	12	9	36	33	20
250	33	39	36	6	3	34	31	19
300	36.6	38	35	1	-2	32	29	19
400	43.2	36	33	-7	-10	30	27	18

## 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
UC400 Cat.6 U/UTP HD PVC BU	5.4	0.1	18.1	60010361	Carton box	305	10.3
UC400 Cat.6 U/UTP HD PVC BU	5.4	0.1	18.1	60026614	Drum	500	18.18
UC400 Cat.6 U/UTP HD PVC BU	5.4	0.1	18.1	60026616	Drum	1,000	35.5
UC400 Cat.6 U/UTP HD PVC GY	5.4	0.1	18.1	60011705	Carton box	305	10.3
UC400 Cat.6 U/UTP HD PVC GY	5.4	0.1	18.1	60011716	Drum	500	18.2
UC400 Cat.6 U/UTP HD PVC GY	5.4	0.1	18.1	60011706	Drum	1,000	35.7

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