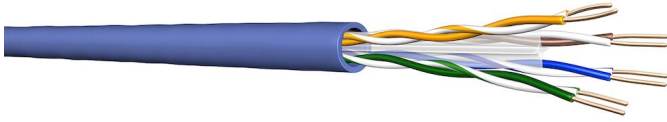


UC400 C6 U/UTP HD PVC

Data horizontal cable Cat.6 U/UTP



GENERAL INFO

UC400 C6 U/UTP HD PVC

CERTIFICATIONS AND DESIGN STANDARDS



RoHS

ISO/IEC 11801
IEC 61156-5
EN 50173-1
EN 50288-6-1

Generic cabling system
Datacom cables
Generic cabling systems
Datacom cables unshielded up to 250 MHz

CABLE CONSTRUCTION

Conductor category	Class 1 = solid
Conductor material	Copper
Conductor surface	Bare
Diameter conductor [mm]	0.54
AWG size	24
Core insulation material	Polyethylene (PE)
Nominal diameter over insulation [mm]	1
Screen over stranding element	None
Number of stranding elements	4
Screen material	Not applicable
Screen over stranding	None
Material outer sheath	Polyvinyl chloride (PVC)
Cable shape	Round
Nominal outer diameter [mm]	5.4
Cable weight [kg/km]	34

APPLICATION PROPERTIES

Min. outer temperature, fixed installation [°C]	-20	(max) [°C]	60
Min. outer temperature during installation [°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 [MΩ·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	Colour outer sheath	SAP	EL no.	Packaging type	Standard packaging quantity	User unit
UC400 C6 U/UTP HD PVC YW	Yellow	60055901	60055901	Carton box	305	MTR
DR BROADCAT 6 U/UTP 4P PVC WE	White	60027628	1082745	Carton box	305	MTR
UC400 C6 U/UTP HD PVC BU	Blue	60010361	60010361	Carton box	305	MTR
UC400 C6 U/UTP HD PVC BU	Blue	60026616	60026616	Drum	1,000	MTR
UC400 C6 U/UTP HD PVC BU	Blue	60026614	1082744	Drum	500	MTR
UC400 C6 U/UTP HD PVC GY	Grey	60011706	60011706	Drum	1,000	MTR
UC400 C6 U/UTP HD PVC GY	Grey	60011716	60011716	Drum	500	MTR
UC400 C6 U/UTP HD PVC GY	Grey	60011705	60011705	Carton box	305	MTR

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