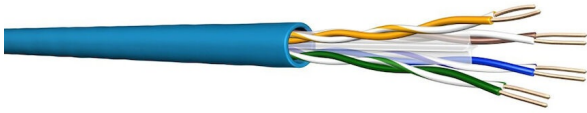


UC400 CAT6 U/UTP HD LSHF ECA

Data horizontal cable Cat.6 unshielded



DESCRIPTION

Halogen-free and fire-retardant data cable for permanent indoor application. CPR class Eca approved. U/UTP (Unshielded, Unshielded Twisted Pair) is a cable construction that is completely unshielded.

Suitable for installation in Primary (Campus), Secondary (Riser), Tertiary (Horizontal) IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; IEEE 802.5 16 MB; ISDN; TPDDI; ATM and Power over Ethernet (PoE) / PoE+ networks.

CERTIFICATION, APPROVAL & STANDARD



EN 50399

ISO/IEC 11801

IEEE 802.3at / at/ bt

EN 50173-1

Heat release and smoke production during flame propagation test

Generic telecom cabling for customer premises

Standard for Ethernet networks

Standard for structured communications cables

CONSTRUCTION

Conductor material	Copper
Conductor surface	Bare
Core insulation material	Polyethylene (PE)
Stranding	Layers
Material outer sheath	Halogenfree polymer
Cable shape	Round

ELECTRICAL PROPERTIES

Test voltage [kV]	1
NVP value [%]	67
Resistance unbalance (max) [%]	2
Nominal mutual capacitance [pF/m]	48
Capacitance unbalance (max) [pF/m]	1,500
Propagation delay (max) [ns/100m]	535
Delay skew (max) [ns/100m]	20
Segregation classification (acc. EN 50174-2)	b

FIRE PROPERTIES

Self-extinguishing	Yes
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)	Eca

THERMAL PROPERTIES

Max. conductor temperature [°C]	60
Max. outer temperature, fixed installation [°C]	-20
Permitted cable outer temperature after assembling without vibration (max) [°C]	60
Permitted cable outer temperature during assembling/handling (min) [°C]	0
Permitted cable outer temperature during assembling/handling (max) [°C]	50

MECHANICAL PROPERTIES

Bending radius (rule)	During installation 8 x D. Finally installed 4 x D.
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APPLICATION PROPERTIES

UV resistant	No
Outdoor installation	No
Underground installation	No
Suitable as telephone cable	Yes
Suitable as computer data cable	Yes

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DELIVERY INFORMATION

Basic construction	Conductor category	Colour outer sheath	Standard packaging quantity	SAP code	DOP number	EAN-code (GTIN)
4x2x0,51 mm	Class 1 = solid	Green	305	60049906	1001013	
4x2x0,51 mm	Class 1 = solid	Orange	305	60049907	1001014	
4x2x0,51 mm	Class 1 = solid	Yellow	305	60049908	1001015	
4x2x0,51 mm	Class 1 = solid	Red	305	60049909	1001016	
4x2x0,51 mm	Class 1 = solid	Black	305	60049910	1001017	
4x2x0,51 mm	Class 1 = solid	Beige	1,000	60066581	1007070	
4x2x0,51 mm	Class 1 = solid	Purple	500	60072430	1007916	
4x2x0,51 mm	Class 1 = solid	Purple	305	60025433	1000999	
4x2x0,51 mm	Class 1 = solid	Blue	500	60025990	1000231	
4x2x0,51 mm	Class 1 = solid	Blue	305	60026862	1000231	
4x2x0,51 mm	Class 1 = solid	Blue	1,000	60011655	1000231	
4x2x0,51 mm	Class 1 = solid	Blue	305	60010360	1000231	

MECHANICAL DATA

Basic construction	Number of cores	AWG size	Diameter conductor [mm]	Nominal outer diameter [mm]	Cable weight [kg/km]	Fire load [MJ/km]	Max. tensile strength during installation [kN]
4x2x0,51 mm	8	24	0.51	5.4	0	316	0.1
4x2x0,51 mm	8	24	0.51	5.4	0	316	0.1
4x2x0,51 mm	8	24	0.51	5.4	0	316	0.1
4x2x0,51 mm	8	24	0.51	5.4	0	316	0.1
4x2x0,51 mm	8	24	0.51	5.4	0	316	0.1
4x2x0,51 mm	8	24	0.51	5.4	0	316	0.1
4x2x0,51 mm	8	24	0.51	5.4	0	316	0.1
4x2x0,51 mm	8	24	0.51	5.4	35	316	0.1

ELECTRICAL DATA

Basic construction	Conductor resistance at 20° C [Ohm/km]	Loop resistance [Ohm]	Characteristic impedance [Ohm]	Coupling attenuation [dB]	Nominal operation capacitance [nF/km]
4x2x0,51 mm	95	190	100	40	
4x2x0,51 mm	95	190	100	40	
4x2x0,51 mm	95	190	100	40	
4x2x0,51 mm	95	190	100	40	
4x2x0,51 mm	95	190	100	40	
4x2x0,51 mm	95	190	100	40	
4x2x0,51 mm	95	190	100	40	
4x2x0,51 mm	95	190	100	40	
4x2x0,51 mm	95	190	100	40	

CAT 6 UTP TRANSMISSIONSEGNSKABER (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

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