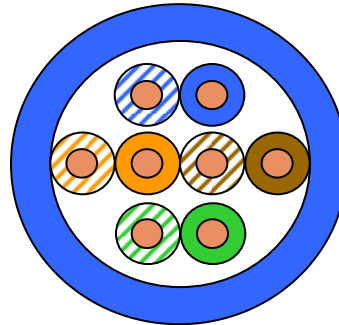




UC400 23 Cat.6

U/UTP



Application

Generic cabling systems

Standards

EN 50173-1; IEC11801; EN 50288-6-1; IEC61156-5; EIA/TIA 568-B.2-1

Fire rating

PVC: IEC 60332-1
LSHF(LSOH): IEC 60332-1; IEC 60754-2; IEC 61034
LSHF-FR(LSFROH): additionally IEC 60332-3-24

Construction

Conductor	Solid copper wire 0.58 mm (AWG23)
Insulation	PE, Ø 1,05 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs
Lay up diameter	Ø 4,6 mm
Sheath	Flame retardant PVC alt. LSHF or LSHF-FR

Mechanical Properties

Bending radius	Installation	8 x D
	Installed	4 x D
Temperature range	During operation	-20°C to + 60°C
	During installation	0°C to + 50°C
Fire load	4 pair PVC	332 MJ/km
Maximum tensile load, installation	During installation	100N
	Installed	-



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Electrical Properties

at 20 °C

DC loop resistance		$\leq 132 \Omega/\text{km}$
Resistance unbalance		$\leq 2\%$
Insulation resistance	(500 V)	$\geq 5000 \text{ M}\Omega\text{xkm}$
Capacitance	at 800 Hz	Nom. 50 nF/km
Capacitance unbalance	(pair to ground)	$\leq 300 \text{ pF/km}$
Mean Characteristic impedance	@ 100 MHz)	$100 \pm 5 \Omega$
Nominal velocity of propagation		0,7 c
Propagation delay		$\leq 500 \text{ ns/100 m}$
Delay skew		$\leq 20 \text{ ns/100 m}$

Nominal Transmission characteristics

at 20 °C

F (MHZ)	Dämpfung, nom. (dB/100m)	NEXT (dB)	ACR (dB/100m)	Returnloss (dB)	PS-NEXT (dB)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)
1	1,9	80	78	-	77	75	76	73
4	3,6	70	66	25	67	63	60	57
10	5,6	70	64	30	67	61	50	47
16	7,1	60	53	30	57	50	45	42
20	8	69	61	30	66	58	42	39
31,25	10,1	58	48	28	55	45	40	37
62,5	14,5	57	43	28	54	40	34	31
100	18,7	51	32	25	48	29	32	29
155	23,7	47	23	25	44	20	27	24
200	27,3	47	20	22	44	17	26	23
250	31	45	14	22	42	11	25	22

Technical Data

Description	Variant	Colour	Fire load	Outer diameter (D)	Delivery form	Weight	Material code		El. No.	DCN No.
			MJ/km	mm		kg/km				
Cat 6 U/UTP 4x2/0,58 mm	PVC	Blue, RAL5012	332	5,6	Box 305m	36	1000901	-00305BR	1080011	799351
Cat 6 U/UTP 4x2/0,58 mm	PVC	Blue, RAL5012	332	5,6	Drum 500m	36	1000901	-00500DP	1082600	799284
Cat 6 U/UTP 4x2/0,58 mm	LSHF	Blue, RAL5012	350	5,6	Drum 500m	37	1013507	-00500DP	-	799636
Cat 6 U/UTP 4x2/0,58 mm	LSHF-FR	Blue, RAL5012	453	6,4	Drum 500m	49	1012984	-00500DP	-	799628