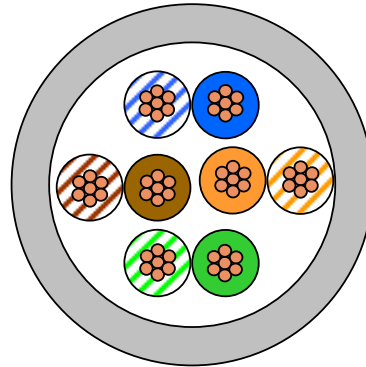




## UC400 24 Cat.6 Patch

### U/UTP



### Application

Tertiär (Horizontal)  
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;  
IEEE 802.5 16 MB;  
ISDN; TPDDI; ATM

### Standards

ISO/IEC 11801 2<sup>nd</sup> ed.; IEC 61156-6  
EN 50173; EN 50288-6-2

### Flame resistance

PVC: IEC 60332-1  
LSHF (LSOH): IEC 60332-1; IEC 60754-2; IEC 61034

### Construction

Conductor	Stranded Cu-wire, tinned 0.18 mm <sup>2</sup> (AWG24)
Insulation	Polyethylene, Ø 0.96 mm
Identification	a-core blue, orange, green, brown b-core white with coloured stripe marking as corresponding a-core
Twisting	2 cores to the pair
Cable lay up	4 pairs to the cable core
Sheath	PVC or LSHF (LSOH)



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### Mechanical properties

Minimum bending radius	Installed	4 x D
	During installation	8 x D
Temperature range	Installed	-20°C up to + 60°C
	During installation	0°C up to + 50°C
Max tensile load	During installation	100N
	During operation	-

### Electrical properties

at 20°C

DC loop resistance	≤ 198 Ω /km	
Resistance unbalance	≤ 2%	
Insulation resistance (500 V)	≥ 5000 MΩ *km	
Capacitance at 800 Hz	Nom. 50 nF/km	
Capacitance unbalance (pair to ground)	≤ 1000 pF/km	
Characteristic impedance	(1 - 100 MHz)	(100 ± 15) Ω
	(100 - 250 MHz)	(100 ± 18) Ω
Nominal velocity of propagation	approx. 70 %	
Propagation delay	≤ 520 ns/100m	
Delay skew	≤ 20 ns/100m	
Test voltage (DC, 1 min)	1000 V	

### Nominal transmission characteristics

at 20°C

f (MHz)	Attenuation (dB/10m)	NEXT (dB)		PS-NEXT (dB)		ELFEXT (dB/10m)		PS-ELFEXT (dB/10m)		Return loss (dB)
		min.	nom.	min.	nom.	min.	nom.	min.	nom.	
1	0.3	74	74	71	71	67	69	64	66	20
4	0.6	65	66	62	63	55	57	52	54	23
10	0.9	59	60	56	57	47	49	44	46	25
16	1.1	56	57	53	54	43	45	40	42	25
20	1.3	55	56	52	53	41	43	38	40	25
31,2	1.6	52	53	49	50	37	39	34	36	24
62,5	2.3	47	48	44	45	31	33	28	30	22
100	3.0	44	45	41	42	27	29	24	26	20
125	3.3	43	44	40	41	25	27	22	24	20
156	3.7	42	43	39	40	23	25	20	22	19
175	4.0	41	42	38	39	22	24	19	21	18
200	4.4	40	41	37	38	21	23	18	20	18
250	4.9	38	39	35	36	20	22	17	19	17
300	5.2		38		35		21		18	
400	6.0		37		34		20		17	



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### Technical Data

Product name	Type	Colour	Outer diameter mm	Fire load MJ/km	Weight Kg/km	Delivery form	Material code		DCN no.	El. no
UC400 24 4P PVC	U/UTP	Grey RAL7035	5,6	363	35	D500	1000014	-00500DP	790561	1089353
UC400 24 4P LSHF	U/UTP	Grey RAL7035	5,0	287	28	D500	1000674	-00500DP	790551	1082601
UC400 24 4P LSHF	U/UTP	Blue RAL5012	5,0	287	28	D500	1001070	-00500DP	799430	-
UC400 24 4P LSHF	U/UTP	Green RAL6016	5,0	287	28	D500	1001072	-00500DP	799431	-
UC400 24 4P LSHF	U/UTP	Red RAL3000	5,0	287	28	D500	1001074	-00500DP	799432	-
UC400 24 4P LSHF	U/UTP	Yellow RAL1021	5,0	287	28	D500	1001075	-00500DP	799433	-