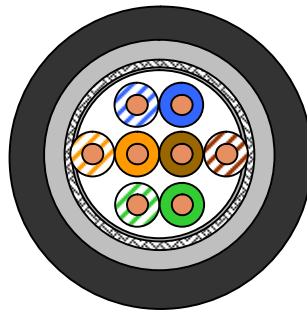


Premium Patch Cat. 5e 100 Ω Data Cable ISO/IEC 11801 Cat. 5e for Studio app.

Data Cable



Application

Tertiary (horizontal)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;
IEEE 802.5 16 MB; ISDN; FDDI; ATM

Standards

EIA/TIA 568A;
ISO/IEC 11801 2nd ed.; JTC1 SC25 N780; IEC 61156-6
EN 50173: CLC/TC215(Sec)94; prEN 50288-2-2, UV resistant

Flame resistance

Construction

Inner conductor	stranded bare copper wire, diameter 0.48 mm	
Insulation	PE, diameter 0.95 mm	
Twisting	2 cores to the pair 4 pairs to the core	
Screen	Al-laminated plastic foil + copper braid tinned	
1 st sheath	FRNC, diameter 5.7 mm	
2 nd sheath	DMC FLEX PUR, max. diameter 7.0 mm	
Printing	DRAKA COMTEQ - Premium Patch Cat. 5e + batch number + meter marking	

Mechanical properties

Minimum bending radius	without load	≥ 10 x D (D= outer diameter)
	with load	≥ 15 x D (D= outer diameter)
Temperature range	during operation	- 20° C to + 60° C
	during installation	0° C to + 50° C

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Electrical properties

at 20°C

Loop resistance		$\leq 260 \Omega/\text{km}$
Resistance unbalance		$\leq 3 \%$
Insulation resistance	500 V	$\geq 2000 \text{ M}\Omega \cdot \text{km}$
Mutual capacitance	800 Hz	nom. 48 nF/km
Capacitance unbalance	pair/ground	$\leq 1500 \text{ pF/km}$
Characteristic impedance	1 – 100 MHz	$100 \Omega \pm 15 \Omega$
Nominal velocity of propagation		ca. 67 %
Propagation delay		$\leq 535 \text{ ns}/100\text{m}$
Delay skew		$\leq 20 \text{ ns}/100\text{m}$
Test voltage	(DC. 1 min) core/core and core/screen	1000 V
Transfer impedance	1 MHz	$\leq 30 \text{ m}\Omega/\text{m}$
	10 MHz	$\leq 30 \text{ m}\Omega/\text{m}$
	30 MHz	$\leq 50 \text{ m}\Omega/\text{m}$

Electrical data

at 20°C

f (MHz)	Attenuation (dB/10m)	NEXT		PS-NEXT		ELFEXT		PS-ELFEXT		Return loss (dB)
		min.	nom.	min.	Nom.	min.	nom.	min.	nom.	
1	0.3	65	71	62	68	64	68	61	65	23
4	0.6	56	62	53	59	52	56	49	53	23
10	0.9	50	56	47	53	44	48	41	45	23
16	1.1	47	53	44	50	40	44	37	41	23
20	1.3	46	51	43	48	38	42	35	39	23
31.2	1.6	43	49	40	46	34	38	31	35	23
62.5	2.4	38	44	35	41	28	32	25	29	23
100	3.0	35	41	32	38	24	28	21	25	23
125	3.3		40		37		26		23	
155.5	3.6		38		35		24		21	
175	3.9		37		34		23		20	
200	4.1		36		33		22		19	
250	4.4		35		32		20		17	
300	4.8		34		31		16		13	

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Technical data

Product code	Type	Brand name	Colour	Outer diameter mm	Copper content	Tensile force N
1002338 CT267260 0	UC300 HS26 4P FRNC/FLEX PUR	Premium Patch CAT-5e	black	7.0/5.7	22.5	100

Product Code Table

Product Description	Product Code	PG Reference Code	PG Part Number
Premium p CAT 5e DMC Li-2Y(ST)C11Y		60016519	60016519

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