

# Premium Patch Cat. 7 100 Ω Data Cable ISO/IEC 11801 Cat. 7 for Studio app.

## Data Cable



## Application

Data connecting cable for studio application,  
 suitable for Video Ethernet; IEEE 802.3: 10Base-T;  
 100Base-T; 1000Base-T; IEEE 802.5 16 MB;  
 ISDN; FDDI; ATM  
 suitable for outside use, not suitable for laying directly in the ground

## Standards

EIA/TIA 568B;  
 ISO/IEC 11801 2nd ed.; IEC 61156-6  
 EN 50173; EN 50288-4-2

## Flame resistance

IEC 60332-1

## Construction

Inner conductor	stranded copper wire, bare, diameter 0.42 mm
Insulation	Foam-Skin-PE, diameter 0.98 mm
Twisting	2 cores to the pair
Pair screen	Al-laminated plastic foil
Cable lay up	4 pairs (PiMF) to the core
Screen	copper braid tinned
1. Sheath	PUR RAL 3000, diameter 5.9 mm
2. Sheath	DMC FLEX PUR, max. diameter 7.0 mm black, RAL 9005
Printing	<b>DRAKA - Premium Patch Cat. 7</b> + batch number + meter marking

## Mechanical properties

Minimum bending radius	without load	≥ 25 mm
	with load	≥ 50 mm
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		≤ 340 Ω/km
Resistance unbalance		≤ 3 %
Insulation resistance	500 V	≥ 2000 MΩ*km
Mutual capacitance	800 Hz	nom. 43 nF/km
Capacitance unbalance	pair/ground	≤ 1500 pF/km
Characteristic impedance	1 – 100 MHz	100 Ω ± 15 Ω
	100 – 250 MHz	100 Ω ± 18 Ω
	250 – 600 MHz	100 Ω ± 25 Ω
Nominal velocity of propagation		ca. 79 %
Propagation delay		≤ 427 ns/100m
Delay skew		≤ 12 ns/100m
Test voltage	(DC. 1 min) core/core and core/screen	1000 V
Transfer impedance	1 MHz	≤ 25 mΩ/m
	10 MHz	≤ 15 mΩ/m
	30 MHz	≤ 30 mΩ/m

## Electrical data

at 20°C

f (MHz)	Attenuation (dB/10m)	NEXT		PS-NEXT		ELFEXT		PS-ELFEXT		Return loss (dB)
		(dB)		(dB)		(dB/10m)		(dB/10m)		
		min.	nom.	min.	Nom.	min.	nom.	min.	nom.	
1	0.3	80	90	80	87	70	80	67	77	23
4	0.6	80	90	80	87	58	80	55	77	24
10	1.0	80	90	80	87	50	80	47	77	25
16	1.3	80	90	80	87	46	76	43	73	25
20	1.4	80	90	80	87	44	74	41	71	25
31.2	1.8	80	90	75	87	40	70	37	67	25
62.5	2.6	75	90	71	87	34	64	31	61	23
100	3.2	72	87	68	84	30	60	27	57	21
125	3.6	71	85	66	82	28	58	25	55	20
155.5	4.0	70	84	65	81	26	56	23	53	19
175	4.3	69	83	64	80	25	55	22	52	19
200	4.6	68	82	63	79	24	54	21	51	18
250	5.1	66	81	62	78	22	52	19	49	18
300	5.6	65	80	60	77	20	50	17	47	17
450	6.9	63	77	58	74	17	47	14	44	17
600	7.9	61	75	56	72	14	44	11	41	17
750	8.7		73		70		42		39	
900	9.7		72		69		41		38	
1000	10.2		71		68		40		37	

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## Technical data

Product code	Type	Brand name	Colour	Outer diameter mm	Copper content	Tensile force N
1006811 CT2602700	UC900 SS27 4P PUR/FLEX PUR	Premium Patch CAT -7	black	5.9/7.0	24	100

[PRODUCT CODE TABLE]

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