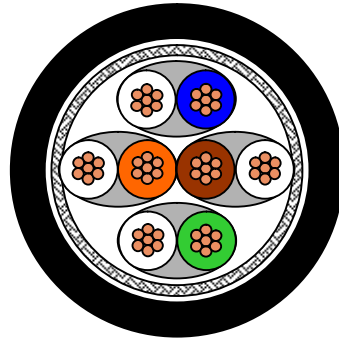


# PATCH PRO FLEX CAT 7

## Patch Cat.7



## 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 2<sup>nd</sup> ed.; IEC 61156-6  
 EN 50173; EN 50288-4-2

## Construction

Inner conductor	Stranded copper wire, bare, 0,14 mm <sup>2</sup>	
Insulation	Foam-Skin PE, Ø 1,0mm	
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 Ø 5,1 mm	
wrapping	Polyester web	
Sheath	DMC FLEX PUR, black, RAL 9005	
Printing	DRAKA – PATCH PRO FLEX CAT 7 batch number + meter marking	

## Mechanical properties

Minimum bending radius	without load	8 x D
	with load	4 x D
Temperature range	During operation	-40°C to + 70°C
	During installation	0°C to + 50°C

## PATCH PRO FLEX CAT 7

### Electrical properties

at 20°C

Characteristic impedance	@ 100 MHz	100 ± 5 Ω
Loop resistance	max.	250Ω/km
Resistance unbalance	max.	2%
Propagation delay		460 ns/100m
Delay skew	max.	10 ns/100m
Transfer Impedance	1 MHz	25 mΩ /m
	10 MHz	25 mΩ /m
Nominal velocity of propagation		0.75 c
Mutual capacitance	nominal	43 nF/km
Capacitance unbalance	max.	700 pF/km

### Electrical data

at 20°C

F (MHZ)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB/100m)	Return loss (dB)	PS-NEXT (dB)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)
1	3	100	97	-	97	94	100	97
4	5	100	95	27	97	92	99	96
10	8	100	92	28	97	89	99	96
16	10	100	90	28	97	87	99	96
20	11	100	89	28	97	86	98	95
31.25	14	100	86	28	97	83	98	95
62.5	20	100	80	28	97	77	97	94
100	26	100	74	28	97	71	97	94
155	32	95	63	26	92	60	96	93
200	37	95	58	25	92	55	96	93
250	41	95	54	25	92	51	95	92
300	47	92	45	23	89	42	94	91
600	67	90	23	20	87	20	88	85
750	76	90	14	18	87	11	87	84
900	84	90	6	17	87	3	87	84
1000	89	90	4	17	87	1	86	83

### Technical data

Product code	Type	Brand name	Outer diameter	Fire load		Weight kg/km	Cu- content	Tensile force N
			mm	MJ/km	kWh/m			
60015173	Cat 7 SS26 4P FLEX PUR	PATCH PRO FLEX CAT 7	6.4	688	0.19	35	17.5	100