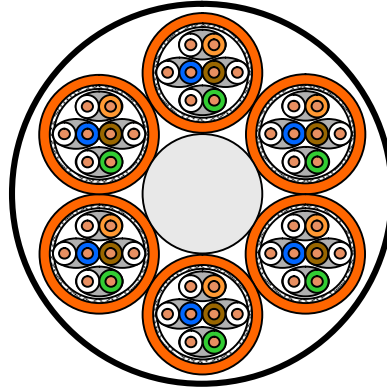




UC^{FUTURE} LOOMED^{ZD} 26 Cat.7 S/FTP 6x4P LSHF

S/FTP Data Centre Cable Cat. 7



Application

IEEE 802.3: 10Base-T; 100Base-T; 10GBase-T, ISDN; xDSL
IEEE 802.5 16 MB; ISDN; TPDDI; ATM155Mbit/s

The conductor diameter is smaller compared to the standard installation cables. This leads to an increased attenuation and therefore the operating distance is reduced (60 m instead of 90 m installation cable in standard permanent link).

Standards

IEC 61156-6 work area cable
ISO/IEC 11801 2nd ed.
EN 50173-5
EN 50288-4-2

Flame resistance

PVC IEC 60332-1
LSHF IEC 60332-1; IEC 60754-2; IEC 61034

Construction

Conductor	bare copper wire, Ø 0.4 mm (AWG26)
Insulation	Foam skin PP, diameter 1.0 mm (+/- 0,05)
Twisting	2 cores to the pair
Pair screen	Al-laminated plastic foil
Cable lay up	4x pimf to the core
Cable screen	Tinned copper braid, coverage approx. 60%
Sheath	LSHF orange RAL 2003
Printing	number printing (on element 2-6) DRAKA UC ^{FUTURE} LOOMED ^{ZD} 26 Cat.7 S/FTP 6x4P + batch number + meter marking - 1 - (on element 1)
Stranding	6 elements stranded to the cable loom, filler in the centre
Wrapping	adhesive tape

Mechanical properties

Minimum bending radius	Without load	8xD
	With load	4xD
Temperature range	During operation	-20°C up to +60°C*
	During installation	10°C up to +40°C

* POE, reduce temperature range



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Electrical properties

at 20°C

Loop resistance		≤ 280 Ω/km
Resistance unbalance		≤ 2%
Test voltage	core/core	1000 V _{DC} 1 min
	core/screen	1000 V _{DC} 1 min
Capacitance	800 Hz	nom. 44 nF/km
Capacitance unbalance		≤ 1600 pF/km
Impedance	100 MHz	100 Ω ± 5 Ω
Nominal velocity of propagation		ca. 76%
Insulation resistance	500 V	≥ 2000 MΩkm
Coupling attenuation		≥ 85 dB

Electrical Data (nominal)

acc. to Cat.7 (at 20°C)

f (MHZ)	Attenuation (dB/10m)	NEXT (dB)	PS-NEXT (dB)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1,0	0,3	90	87	80	77	23
4,0	0,6	90	87	80	77	24
10,0	1,0	90	87	80	77	25
16,0	1,3	90	87	76	73	25
20,0	1,4	90	87	74	71	25
31,2	1,8	90	87	70	67	25
62,5	2,6	90	87	64	61	23
100,0	3,2	87	84	60	57	21
125,0	3,6	85	82	58	55	20
155,5	4,0	84	81	56	53	19
175,0	4,3	83	80	55	52	19
200,0	4,6	82	79	54	51	18
250,0	5,1	81	78	52	49	18
300,0	5,6	80	77	50	47	17
450,0	6,9	77	74	47	44	17
600,0	7,9	75	72	44	41	17

Technical data

Product code	Designation	Type	Outer diameter mm	Fire load		Weight kg/km	Copper content kg/km	Tensile force N
				MJ/km	kWh/m			
1017172	J-02YS(St)CH	6x4x2x0,4 PiMF	16.4	2020	0.56	210	132	700