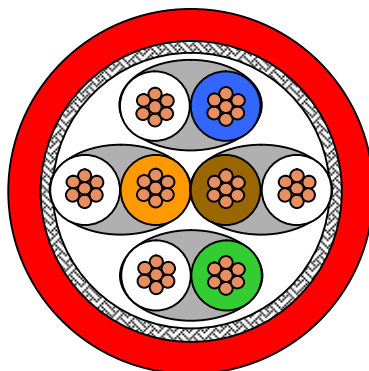


ICS IE UC900 SS27 Cat.7 PUR

IE S/FTP patch cable 4x2xAWG27/7 with abrasion and oil resistant PUR sheath



Application

Work area and patch cord cable
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Standards

EIA/TIA 568A;
ISO/IEC 11801 2nd ed.; IEC 61156-6
EN 50173-1; EN 50288-4-2

Flame resistance

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

Chemical resistance

Oil resistant against Mineral – oil, ASTM – oil
The sheath material is tested in Hydraulic oil
ARAL VITAM 32, Mobil DTE 13 M, Gear oil ARAL DEGOL BG Plus 320 and Tribol 1710/320.

Construction

Conductor	stranded bare copper wires, Ø 0.42 mm (AWG 27/7)
Insulation	foam-skin Polyethylene, Ø 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
Sheath	PUR
Colour	red
Marking	DRAKA UC900 SUPER SCREEN 27 CATEGORY 7 S/FTP Patch 4P IEC 61156-6 PUR, batch number and meter marking

ICS IE UC900 SS27 Cat.7 PUR

Mechanical properties

Bending radius	without load	≥ 25 mm
	with load	≥ 50 mm
Temperature range	during operation	-35°C to + 75°C
	during installation	-5°C to + 50°C
UV resistance of sheath material		acc. to IEC60068-2-5
Ozone resistance		acc. to EN 60811-2-1, clause 8
Smoke density		acc. to EN 50268-2, IEC61034-1 and 2
Corrosivity		acc. EN 50267-1 and 2, IEC 60754-1 and 2

Electrical properties

at 20°C ± 5°C

Loop resistance		≤ 340 Ω/km
Resistance unbalance		≤ 3%
Insulation resistance	(500 V)	≥ 2000 MΩ*km
Mutual capacitance	at 800 Hz	Nom. 43 nF/km
Capacitance unbalance	(pair/ground)	≤ 1500 pF/km
Characteristic impedance	(1-100 MHz)	(100 ± 15) Ω
	(100 - 250) MHz	(100 ± 18) Ω
	(250 - 600) MHz	(100 ± 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	at 1 MHz	25 mΩ/m
	at 10 MHz	15 mΩ/m
	at 30 MHz	30 mΩ/m
Coupling attenuation		75 dB

Electrical data (nominal)

acc. to Cat.7 (at 20°C)

F (MHz)	Attenuation (dB/10m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1.0	0.3	90	87	90	80	77	23
4.0	0.6	90	87	89	80	77	24
10.0	1.0	90	87	89	80	77	25
16.0	1.3	90	87	89	76	73	25
20.0	1.4	90	87	89	74	71	25
31.2	1.8	90	87	88	70	67	25
62.5	2.6	90	87	87	64	61	23
100.0	3.2	87	84	84	60	57	21
125.0	3.6	85	82	81	58	55	20
155.5	4.0	84	81	80	56	53	19
175.0	4.3	83	80	79	55	52	19
200.0	4.6	82	79	77	54	51	18
250.0	5.1	81	78	76	52	49	18
300.0	5.6	80	77	74	50	47	17
450.0	6.9	77	74	70	47	44	17
600.0	7.9	75	72	67	44	41	17
750.0	8.7	73	70	64	42	39	
900.0	9.7	72	69	62	41	38	
1000.0	10.2	71	68	61	40	37	

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Technical data

Part number	Cable type DIN/VDE	Product name	Colour	Outer diameter mm	Fire load		Weight kg/km	Copper content	Tensile force N
					MJ/km	kWh/m			
1001136	Li-02YSC11Y 4x2x0.42L PiMF	UC900 SS27 Cat.7 PUR S/FTP 4P	red	5.9	383	0.106	34	24	100

Product Code Table

Product Description	Product Code	PG Reference Code	PG Part Number
UC900 SS27 C7 S/FTPp 4P PUR RD 500DW	1001136-00500DW	60014327	60011459
UC900 SS27 C7 S/FTPp 4P PUR RD	1001136	60014327	60014327
UC900 SS27 C7 S/FTPp 4P PUR RD 100RW	1001136-00100RW	60014327	60014328
UC900 SS27 C7 S/FTPp 4P PUR RD 1000DW	1001136-01000DW	60014327	60014330

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