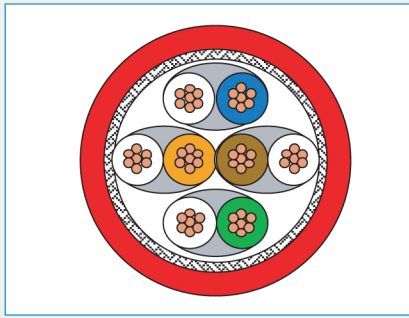


# IE UC900 SS27 Cat.7 PUR

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

## Fire Rating

- 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

<b>Conductor</b>	stranded bare copper wires, Ø 0.42 mm (AWG 27/7)
<b>Insulation</b>	foam-skin Polyethylene, Ø 0.98 mm
<b>Twisting</b>	2 cores to the pair
<b>Pair screen</b>	Al-laminated plastic foil
<b>Cable lay up</b>	4 pairs (PIMF) to the core
<b>Screen</b>	copper braid, tinned
<b>Sheath</b>	PUR
<b>Colour</b>	red
<b>Outer Diameter</b>	Nom. 5.9 mm
<b>Weight</b>	Nom. 34 kg/km
<b>Tensile force N</b>	100

## Mechanical Properties

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

## Electrical Properties at 20°C ± 5°C

<b>Loop resistance</b>	-	≤ 340 Ω/km
<b>Resistance unbalance</b>	-	≤ 3%
<b>Insulation resistance</b>	(500 V)	≥ 2000 MΩ*km
<b>Mutual capacitance</b>	at 800 Hz	Nom. 43 nF/km
<b>Capacitance unbalance</b>	(pair/ground)	≤ 1500 pF/km
<b>Characteristic impedance</b>	(1-100 MHz)	(100 ± 15) Ω
	(100 - 250) MHz	(100 ± 18) Ω
	(250 - 600) MHz	(100 ± 25) Ω
<b>Nominal velocity of propagation</b>	-	ca. 79 %
<b>Propagation delay</b>	-	≤ 427 ns/100m
<b>Delay skew</b>	-	≤ 12 ns/100m
<b>Test voltage</b>	(DC, 1 min) core/core and core/screen	1000 V
<b>Transfer impedance</b>	at 1 MHz	25 mΩ/m
	at 10 MHz	15 mΩ/m
	at 30 MHz	30 mΩ/m
<b>Coupling attenuation</b>	-	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	0.3	90	87	90	77	77	23
4	0.6	90	87	89	77	77	24
10	1.0	90	87	89	77	77	25
16	1.3	90	87	89	73	73	25
20	1.4	90	87	89	71	71	25
31.2	1.8	90	87	88	67	67	25
62.5	2.6	90	87	87	61	61	23
100	3.2	87	84	84	57	57	21
125	3.6	85	82	81	55	55	20
155.5	4.0	84	81	80	53	53	19
175	4.3	83	80	79	52	52	19
200	4.6	82	79	77	51	51	18
250	5.1	81	78	76	49	49	18
300	5.6	80	77	74	47	47	17
450	6.9	77	74	70	44	44	17
600	7.9	75	72	67	41	41	17
750	8.7	73	70	64	39	39	-
900	9.7	72	69	62	38	38	-
1000	10.2	71	68	61	37	37	-

## Ordering Information

P/N	Product Description	P.U
60011459	IE S/FTP patch cable 4x2xAWG27/7 with abrasion and oil resistant PUR sheath, IE UC900 SS27 Cat.7 PUR	500m/drum
60014237	IE S/FTP patch cable 4x2xAWG27/7 with abrasion and oil resistant PUR sheath, IE UC900 SS27 Cat.7 PUR	1000m/drum