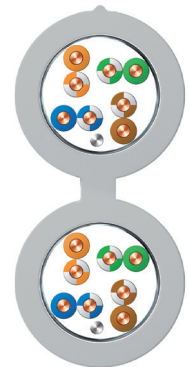


# SureLAN<sup>®</sup> 5e F/UTP Duplex

## Cable Design *2 x (4x2x24awg) F/UTP*

<b>Conductor</b>	Solid bare copper wire (24awg)
Diameter	Ø 0,510 mm
<b>Insulation</b>	Polyethylene (PE)
Diameter	Ø 0,90 mm
Core identification	WHBU/BU - WHOG/OG - WHGN/GN - WHBN/BN
<b>Assembly</b>	2 cores twisted to a pair
<b>Core</b>	4 Shielded pairs layed up in shotgun formation
<b>Drain Wire</b>	Solid tinned copper
<b>Screen</b>	Aluminium/polyester tape
<b>Outer Jacket</b>	LSZH FireFighter <sup>®</sup> or FR-PVC
Diameter	Ø 7,60 ± 0,25 mm
Colour	Grey



## Application

High speed data transmission functionality designed typically for use in horizontal cable installation of local computer networks. IEEE 802.3, IEE 802.5, FDDI, ATM, RNIS. These cables operate to the protocol supported by Class D as set out in ISO/IEC 11801 although they can transmit at frequencies of up to 200MHz.

## Electrical Data at 20° C

Complete conductor resistance	≤ 190 Ω/km
Resistance unbalance	≤ 2 %
Dielectric strength (continuous current)	1kV during 1min=no breakdown
Insulation resistance (500V)	≥ 5000 MΩ . km
Capacitance unbalance Real-ground	≤ 1600 pF/km
Characteristic impedance at 100 MHz	100 ± 5 Ω
Nom. Velocity	78 %
Transfer Impedance	1 MHz ≤ 40 mΩ/m
	10 MHz ≤ 40 mΩ/m
	30 MHz ≤ 50 mΩ/m
	100 MHz ≤ 200 mΩ/m

Frequency (MHz)		4	10	20	62.5	100	155**	200**
<b>Max. Attenuation (dB/100m)</b>	Typical value	3.8	6	8.5	15.2	19.5	25	28
	Cat. 5e* (max.)	4.1	6.5	9.3	17	22	-	-
<b>Min. NEXT (dB)</b>	Typical value	63	57	52	45	42	39	37
	Cat. 5e* (min.)	56.3	50.3	45.8	38.4	35.3	-	-
<b>Min. ACR (dB)</b>	Typical value	59.2	51	43.5	29.8	22.5	14	9
	Cat. 5e* (min.)	52.2	43.8	36.5	21.4	13.3	-	-
<b>PS NEXT (dB)</b>	Typical value	60	54	49	42	39	36	34
	Cat. 5e* (min.)	53.3	47.3	42.8	35.4	32.3	-	-
<b>ELFEXT (dB/100m)</b>	Typical value	63	55	48	39	35	31	29
	Cat. 5e* (min.)	52	44	38	28	24	-	-
<b>PS ELFEXT (dB/100m)</b>	Typical value	60	52	45	36	32	28	26
	Cat. 5e* (min.)	49	41	35	25	21	-	-
<b>Return Loss (dB)</b>	Typical value	25	25	25	23.8	23	22	21
	Cat. 5e* (min.)	23	25	25	21.5	20.1	-	-

\* Category 5 acc. to IEC 61156-5

\*\* For information only

## Specification

Part Number	Type	Colour	PCS (superior calorific capacity)	
			<i>MJ/km</i>	<i>kWh/m</i>
7063	Duplex FR-PVC	Grey	303	0,092
7064	Duplex LSZH	Grey	303	0,084

### Cables

IEC 61156-5, EN 50288-3-1

### Cabling system standard

IS 11801 ed.2, EN 50173-1, EIA/TIA 568

### Cabling system installation standard

EN50174