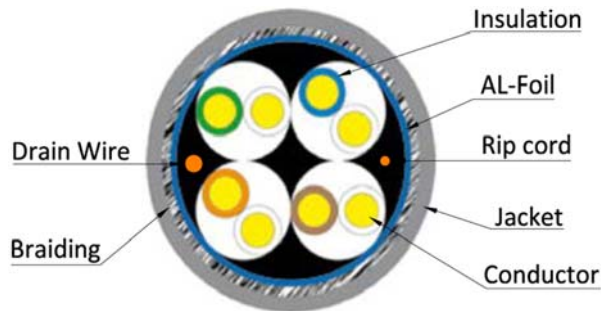
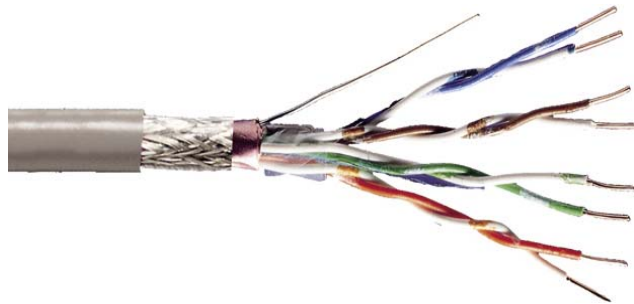




DIGITUS NETWORK INSTALLATION CABLE CAT 5e - SF/UTP - 100MHz

Imprint on cable jacket: DIGITUS CAT.5e S-FTP SOLID CABLE, AWG24/1 ISO/IEC 11801 EN 50288 EIA/TIA 568-B.2 WWW.DIGITUS.INFO XXXM



Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
 IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;
 IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Test Standards

TIA/EIA 568-B.2
 ISO/IEC 11801 2nd ed.; IEC 61156-5
 EN 50173; EN 50288-3-1

Flame Resistance

PVC: IEC 60332-1 **DIGITUS P/N:** DK-1531-V-1 ; DK-1531-V-305
LSHF(LSOH): IEC 60332-1; IEC 60754-2; IEC 61034 **DIGITUS P/N:** DK-1531-VH-1 ; DK-1531-VH-305

Construction

Conductor	Bare copper wire $\varnothing 0.505 \pm 0.015\text{mm}$ (AWG24)
Insulation	HD Polyethylene, $\varnothing 0.95 \pm 0.03\text{mm}$
Rip-cord/Drain wire	Yes, drain wire $\varnothing 0.45\text{mm}$ Tinned-copper
Shielded	AL Foil & Braiding
Sheath	PVC alt. LSHF(LSOH), Color Grey RAL 7035 Thickness $\varnothing 0.55 \pm 0.05\text{mm}$, External O.D $\varnothing 6.4 \pm 0.2\text{mm}$

Physical Properties

Before Aging	Tensile Strength	$\geq 13.5\text{Mpa}$
	Elongation	$\geq 150\%$
	Aging Period	100°C x 24h x7d
After Aging	Tensile Strength	≥ 12.5
	Elongation	≥ 125
Cold Bending	(-20 ± 2°C x 4h)	No visible cracks



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Electrical Properties (at 20°C ± 5°C)

DC Loop Resistance		$\leq 190 \Omega / 100km$
Resistance Unbalance		Max 5%
Insulation Resistance	(500 v)	$\geq 2000M \Omega *km$
Mutual Capacitance	(at 800 Hz)	Nom. 53 nF/km
Capacitance Unbalance to earth		Max 330 pF/100m
Characteristic Impedance	(1-100 MHz)	$100 \pm 15 \Omega$
Nominal velocity of propagation		Approx. 67 %
Propagation Delay		Nominal $\leq 535 ns/100m$
Delay Skew		Nominal $\leq 45 ns/100m$
Test Voltage	(DC, 1 min) Core/Core	1000 V
Transfer Impedance	at 1 MHz	$\leq 50 \Omega$
	at 10MHz	$\leq 100 \Omega$
	at 30 MHz	$\leq 200 \Omega$
Coupling attenuation		$\geq 40 dB$

Electrical Data (Nominal)

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1.0	3.0	60.0	57.0	57.0	54.0	58.6	55.6	19
4.0	3.9	54.8	51.8	50.9	47.9	46.6	43.6	19
8.0	5.5	50.0	47.0	44.5	41.5	40.6	37.5	19
10.0	6.2	48.5	45.5	42.3	39.3	38.6	35.6	19
16.0	7.9	45.2	42.2	37.3	34.3	34.5	31.5	19
20.0	8.9	43.7	40.7	34.8	31.8	32.6	29.6	19
25.0	10.0	42.1	39.1	32.1	29.1	30.7	27.7	18
31.3	11.2	40.5	37.5	29.3	26.3	28.7	25.7	17
62.5	16.2	35.7	32.7	19.4	16.4	22.7	19.7	14
100.0	21.0	32.3	29.3	11.3	8.3	18.6	15.6	12