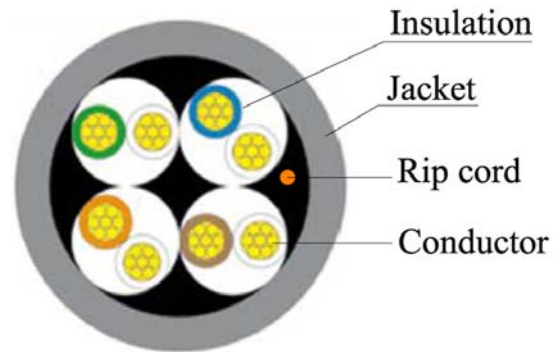
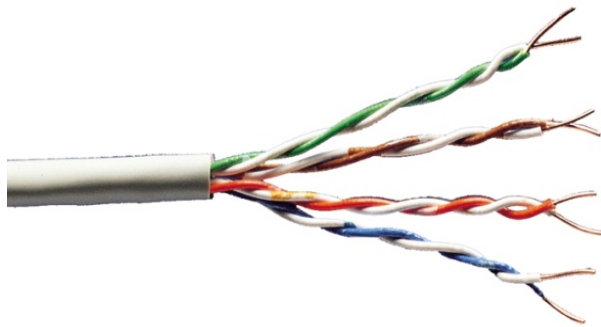


DIGITUS NETWORK INSTALLATION CABLE CAT 5e - U/UTP - 100MHz

Imprint on cable jacket: DIGITUS CAT.5e U-UTP 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-1511-V-1 ; DK-1511-V-305
LSHF(LSOH): IEC 60332-1; IEC 60754-2; IEC 61034 **DIGITUS P/N:** DK-1511-VH-1 ; DK-1511-VH-305

Construction

Conductor	Bare copper wire $\varnothing 0.505 \pm 0.015\text{mm}$ (AWG24)
Insulation	HD Polyethylene, $\varnothing 0.87 \pm 0.02\text{mm}$
Rip-cord	Yes
Sheath	PVC alt. LSHF(LSOH), Color Grey RAL 7035 Thickness $\varnothing 0.5 \pm 0.05\text{mm}$, External O.D $\varnothing 5.0 \pm 0.3\text{mm}$

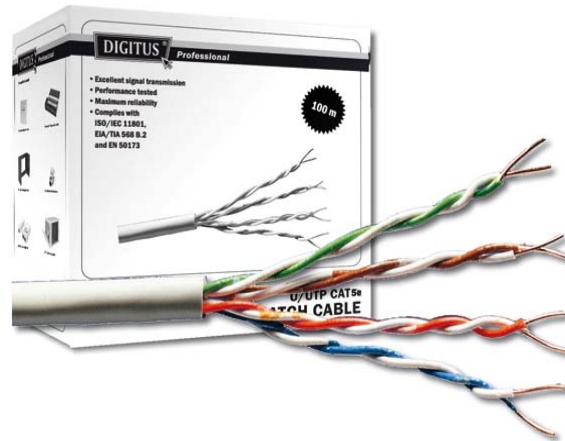
Physical Properties

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



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Electrical Properties (at 20°C ± 5°C)

DC Loop Resistance		≤ 190 Ω /100km
Resistance Unbalance		Max 5%
Insulation Resistance	(500 v)	≥ 2000M Ω *km
Mutual Capacitance	(at 800 Hz)	Nom. 48 nF/km
Capacitance Unbalance to earth		≤ 1500 pF/km
Characteristic Impedance	(1-100 MHz)	100 ± 15 Ω
Nominal velocity of propagation		Approx. 67 %
Propagation Delay		Nominal ≤ 535 ns/100m
Delay Skew		Nominal ≤ 45 ns/100m
Test Voltage	(DC, 1 min) Core/Core	1000 V
Transfer Impedance	at 1 MHz	≤ 50 Ω
	at 10MHz	≤ 100 Ω
	at 30 MHz	≤ 200 Ω
Coupling attenuation		≥ 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