

## DIGITUS® CAT 7, S/FTP Multipair Trunk Cable, raw



12-way



6-way

### Abstract

CAT 7 S/FTP Multipair Trunk Cable, raw, AWG 23/1, 1200 MHz, LSZH-3, color turquoise (RAL 6027)

### Application areas:

Primary (Campus), Secondary (Riser), Tertiary (Horizontally)  
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T  
IEEE 802.5: 16 MB; ISDN; FDDI; ATM; CATV; PoE/PoE+

### Norms:

ISO/IEC 11801 2<sup>nd</sup> Ed.; IEC 61156-5  
EN 50173-1/4; EN 50288-4-1

### FRNC (Flame retardancy):

IEC 60332-3-24; IEC 60754-2; IEC 61034

### Physical Description:

Basic conductor	Solid AWG 23/1; bare annealed copper, diameter 0.56 mm nominal
Insulation	FMPE
Total number of insulated conductors	8, twisted in 4 pairs
Color code	Blue-white, orange-white, green-white, brown-white
Individual pair shielding	Aluminum foil, providing 100 % coverage
Overall shielding	wire braid, 35% nominal coverage
Outer jacket	halogen free (FRNC-C/LSZH-3)
Außenmantelstärke	0,6 mm nominal
Color	Turquoise (RAL 6027)

### Mechanical Properties:

Tensile loading	150 N max.
Dynamic bending radius	8x AD mm min.
Static bending radius	4x AD mm min.
Shipping- and storage temperature range	-20 °C up to +75 °C
Operating temperature range	-20 °C up to +60 °C
Installation temperature range	0 °C up to +50 °C
Overall diameter	6 pairs 22.0 mm; 12 pairs 40.0 mm
Flame retardancy	IEC 60332-3-24
Halogen free & smoke-proof	IEC 60754-2 & IEC 61034
Fire load	740 Mj/km
Weight	300 kg/km (6 wire-trunk), 600 kg/km (12 wire-trunk)

### Electrical Properties:

Mean impedance	100 ± 15 Ohm @ 1-600 MHz
Capacitance	40 pF/m nominal @ 1 KHz
Capacitance unbalance to ground	1.6 pF/m max. @ 1 KHz
Insulation resistance	5 GOhm x Km min.
DC loop resistance	147 Ohm/Km max. (2% resistance unbalance)
Voltage resistance	72 Vdc max.
Coupling attenuation	85 dB
Phase delay	450 nS/ 100 m max.
Propagation delay	15 nS/100 m max.
Separating class	"d" acc. to EN 50174-2
NVP	79%

### Transmission Properties:

FREQ.	ATT	NEXT	PS NEXT	RL	ACR	PS ACR	ELFEXT	PS ELFEXT	EL TCTL
MHz	dB	dB	dB	dB	dB	dB	dB	dB	dB
1	1.8	100	97	26.6	98.2	95.2	100	97	23
10	5.4	100	97	35.3	89.6	86.6	85	82	30
100	14.4	100	97	39.6	85.6	82.6	65	62	25
250	28.1	90	87	34	61.9	58.9	57	54	23
500	40	86	83	29	46	51	50	47	23
600	44.8	84.5	81.5	25.4	39.7	36.7	49	46	23
1000	58.4	82	79	21.5	23.6	20.6	45	42	20
1200	68	80	77	20.6	12	9	40	37	18

(Installation Cable tested up 1200 MHz)

### Product Number Information

DK-1743-6-001-RAW	DIGITUS® CAT 7 S/FTP Multipair Trunk cable, raw, 6-way, AWG 23/1, 1200 MHz, LSZH-3, color turquoise (RAL 6027)
DK-1743-12-001-RAW	DIGITUS® CAT 7 S/FTP Multipair Trunk cable, raw, 12-way, AWG 23/1, 1200 MHz, LSZH-3, color turquoise (RAL 6027)