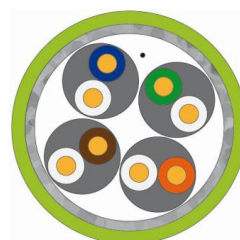
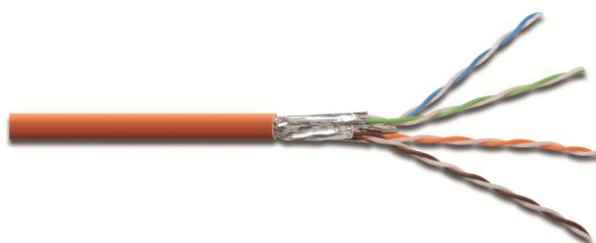


DIGITUS® CAT 7, Class F, S-FTP Twisted Pair Installation Cable



Abstract

DIGITUS® CAT 7, Class F, S-FTP Twisted Pair Installation Cable, LSZH-3, 1200 MHz, simplex

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; PoE/PoE+

Norms:

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

FRNC (Flame retardancy):

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

Physical Description:

Basic conductor	Solid AWG 23/1; bare annealed copper, diameter 0.57 mm nominal
Insulation	SFS-PE (Foam-Skin Polyethylene)
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	35% wire braid, copper drain wire
Outer jacket	halogen free (FRNC-C/LSZH-3)
Outer jacketed diameter	0.7 mm nominal
Color	Orange (RAL 2000)

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	7.3 mm nominal
Flame retardancy	IEC 60332-3-24
Halogen free & smoke-proof	IEC 60754-2 & IEC 61034-2
Fire load	620 MJ/km
Weight	55 kg/km

Electrical Properties:

Mean impedance	100±5 Ohm @ 1-600 MHz
Propagation velocity	75-77% nominal
Capacitance	40 pF/m nominal @ 1 KHz
Capacitance unbalance to ground	1.6 pF/m max. @ 1 KHz
Insulation resistance	0.5 Ohm x Km min.
DC loop resistance	147 Ohm/Km max. (2% resistance unbalance)
Voltage resistance	72 Vdc max.
Coupling attenuation	85 dB min. @ 30-100 MHz 85-20 Log (f/100) dB min. @ 100-1000 MHz
PS-ANEXT loss	92.5-15 Log(f) dB min. @ 1-600 MHz (67 dB max.)
PS-AFEXT	78.2-20 Log(f) dB min. @ 1-600 MHz (67 dB max.)
Phase delay	534-36/f ^{1/2} nS/100 m max. @ f=1-1000 MHz
Propagation delay	25 nS/100 m max.
Separating class	"d" acc. to EN-50174-2
NVP	79%

Transmission Properties:

FREQ.	Attenuation	NEXT	PS NEXT	ACR	PS ACR	EL FEXT	PS ELFEXT	EL-TCTL
MHz	dB/100 m	dB	dB	dB/100 m	dB/100 m	dB	dB	dB
1	1,8	100	97	98	94	105	103	23
4	3,4	100	97	97	92	93	91	25
10	5,4	100	97	95	90	85	83	30
100	14,4	100	97	97	87	65	63	25
250	28,1	90	87	87	68	57	55	23
500	40,0	86	83	58	54	50	48	23
600	44,8	84,5	82	44	40	49	47	23
1000	58,4	82	79	23	20	45	43	20
1200	68,0	70	69	18	15	40	38	18

Product Number Information

DK-1743-VH-5	DIGITUS® CAT 7 S-FTP PiMF installation cable, raw, length 500 m, drum, AWG 23/1, 1200 MHz, LSZH-3, simplex, color orange
DK-1743-VH-10	DIGITUS® CAT 7 S-FTP PiMF installation cable, raw, length 1000 m, drum, AWG 23/1, 1200 MHz, LSZH-3, simplex, color orange