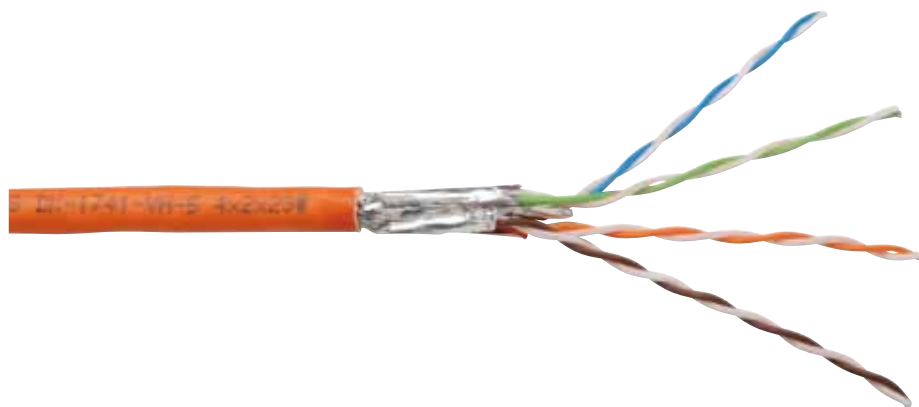


CAT 7 twisted pair raw cable

4x2xAWG23 S/FTP Category 7 100 Ohm LSOH Data Cable

Part No.: DK-1741-VH-XX



Technical Specification

Cable Type: 4x2xAWG23 S/FTP 7A up to 1200MHz, 100 Ohm LSOH Data Cable (Orange)
DIGITUS® Professional

Category 7 S/FTP indoor cable, conforming to ISO/IEC-11801 & IEC 61156-5. The cable contains 4 individually foil-shielded twisted pairs cabled together, overall shielded with a tinned-copper braid overall jacketed with LSOH compound for indoor use, conforming to IEC 60233-1.

Physical Description

Basic Conductor	Solid 23AWG, bare annealed copper (0.57mm nom.)
Insulation	SFS-PO.
Total number of insulated conductors	8, twisted in 4 pairs.
Color code	Blue x White, Orange x White, Green x White, Brown x White.
Individual pair shield	Aluminum foil, providing 100% coverage, foil face out.
Overall shield	Tin-coated copper wire braid, 35% nom. coverage.
Drain wire	None.
Outer jacket	Low-smoke, Zero-halogen, Flame-retardant compound for indoor use.
Outer jacket thickness	0.6 mm nom.
Color	Orange RAL 2000.
Overall Diameter	7.0 mm nom.
Surface Marking	DIGITUS DK-1741-VH-5 4x2x23# S/FTP CATEGORY 7 SHIELDED LSOH CABLE VERIFIED to CAT 7 ISO/IEC-11801 & IEC 61156-5 FR IEC 60332-1 CE 2002/95/EC (RoHS) [Meter Mark] METER [Batch Number]

Mechanical Properties

Bend Radius	Dynamic: 8xD mm min. Static: 4xD mm min
Storage Temperature	-20 to +75C
Temperature installation range	0 to +50C
Temperature operating range	-20 to +60C
Flame Tests	IEC 60332-1 (Fire), IEC 60754 (gas) & IEC 61034 (smoke)
Pulling force	150 N max.
Caloric value	650 KJ/m
Total Weight	48 Kg/Km nom.

Electrical Properties

Mean Impedance	100±5 Ohm @ 1200 MHz
Vp	75-77% nom.
Capacitance	40 pF/m nom @ 1 KHz
Capacitance unbalance to ground	1.6 pF/m max. @ 1 KHz
Insulation Resistance	0.5 GOhm • Km min.
DC Resistance	72 Ohm/Km max. (2% max. resistance unbalance).
DC Loop Resistance	147 Ohm/Km max. (2% max. resistance unbalance).
Voltage rating	72Vdc max.
Coupling attenuation	85dB min @ 30-100 MHz. 85-20Log(f/100) dB min. @ 100-1000 MHz.
PS-ANEXT Loss	92.5-15Log(f) dB min. @ 1-600 MHz (67dB max).
PS-AACRF	78.2-20Log(f) dB min. @ 1-600 MHz (67dB max.)
Phase delay	534+36/f ^{1/2} nS/100m max. @ f=1-1000 MHz.
Delay Skew	25 nS/100m max.

Transmission Properties

Frequency (MHz)	Attenuation (dB/100m)	Next (dB)	PS Next (dB)	ACR (dB)	PS ACR (dB)	Elfext (dB)	PS Elfext (dB)	Returnloss (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	17.4	100	97	97	78	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	60.7	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