

TECHNICAL CABLE DATA SHEET

SCHEDA TECNICA DI PRODOTTO

NUMBER: numero	3017e	revision: revisione	00	cause of release: emissione	☒ information informazione	☐ definitive definitiva	ITEM CODE: codice articolo	0562668			
ITEM DESCRIPTION: DATABIT DTB-H C-6 FTP FRNC-LSZH 4x2x23/1AWG CATEGORY 6 (tested up to 350 MHz) descrizione articolo (ETHERNET™ CABLE) for fixed installation											
USE: impiego			☒ indoor <i>interno edificio</i> ☐ outdoor limited <i>esterno limitato</i> ☐ outdoor direct burial <i>esterno interrato</i> ☐			INSTALLATION: posa			☒ fixed <i>fissa</i> ☐ flexible limited <i>flessibile limitata</i> ☐ dynamic (drag chain) <i>mobile in catena</i> ☐ dynamic (torsion) <i>mobile in torsione</i>		
INFORMATION: informazioni									☒ 2002/95/EC RoHS compliant ☒ 2002/95/EC LVD compliant ☒ CE marking ☐		

CARATTERISTICHE:

characteristics

Construction

Inner conductor

Insulation

Insulation colours

Core assembly

Pair assembly

Separation

Global shield

Outer jacket

Copper weight

Total weight

Printing (ink-jet)

solid bare copper wire 23/1AWG (1×0,57 mm) - nom. cross section 0,25 mm²

foam-skin polyethylene (NO RJ-45 plug compatible)

white/blue, blue, white/orange, orange, white/green, green, white/brown, brown

the cores will be stranded to a pair - (1) white/blue+blue, (2) white/orange+orange, (3) white/green+green, (4) white/brown+brown

the four pair will be stranded together around a central cross-web halogen free filler

polyester (PET) tape

- aluminium/polyester tape (inside aluminium surface) with 20% overlap

- solid tinned copper drain wire 26/1AWG (1×0,40 mm)

FRNC-LSZH compound - orange similar to RAL2003 colour

outer Ø: 7,2 (± 0,2) mm - nom. thickness: 0,6 mm

23,0 kg/km

approx. 62 kg/km

#P/N 0562668# CEAM DTB-H C-6 FTP LSZH 4x2x23/1AWG 100 OHM ISO/IEC11801 EN50288-5-1 CAT.6 300MHz 75°C

Electrical and transmission properties @ 20°C

Max DC conductor resistance

74,5 Ω/km

Capacitance

46 pF/m

Max capacitance unbalance

1600 pF/km

Propagation velocity @ 100 MHz

approx. 75 %

Propagation delay @ 100 MHz

nom 460 nsec/100m (max 520 nsec/100m)

Delay skew (4÷250 MHz)

nom 25 nsec/100m (max 45 nsec/100m)

Characteristic impedance

100 Ω (± 15%)

Dielectric strength (cond./cond. - cond./shield)

0,7 kVac × 1 min

Min insulation resistance

5,0 GΩ×km

Transfer impedance

50 mΩ/m @1MHz - 100 mΩ/m @10MHz - 200 mΩ/m @30MHz - 1000 mΩ/m @100MHz

FREQUENCY [MHz]	ATTENUATION [dB/100m]		NEXT [dB]		PS NEXT [dB]		EL-FEXT [dB/100m]		PS EL-FEXT [dB/100m]		PS ACR [dB/100m]		RETURN LOSS [dB]	
	Standard [MAX]	typical	Standard [MIN]	typical	Standard [MIN]	typical	Standard [MIN]	typical	Standard [MIN]	typical	[MIN]	typical	Standard [MIN]	typical
1	(2,1)	1,9	74,3	83	72,3	81	66,0	84	64,0	81	70,2	79,1	---	28
4	3,8	3,6	65,3	77	63,3	75	58,0	77	55,0	74	59,5	71,4	23,1	29
10	6,0	5,6	59,3	73	57,3	71	50,0	76	47,0	73	51,3	65,4	25,0	31
16	7,6	7,1	56,2	69	54,2	67	46,0	68	43,0	65	46,6	59,9		
20	8,5	8,0	54,8	66	52,8	63	44,0	65	41,0	62	44,3	56,0	23,6	30
31,25	10,7	10,2	51,9	64	49,9	62	40,1	55	37,1	52	39,2	51,8		
62,5	15,4	14,6	47,4	63	45,4	61	34,1	45	31,1	42	30,0	46,4	21,5	29
100	19,8	18,7	44,3	56	42,3	54	30,0	39	27,0	36	22,5	35,3	20,1	27
125	22,4	21,0	42,8	55	40,8	53	28,1	38	25,1	35	18,4	32,0	19,4	26
155,52	25,2	23,8	41,4	53	39,4	51	26,2	37	23,2	34	14,2	27,2	18,8	25
200	29,0	27,3	39,8	47	37,8	45	24,0	35	21,0	32	8,8	17,7	18,0	25
250	32,8	30,9	38,3	45	36,3	43	22,0	34	19,0	31	3,5	12,1	17,3	23
300	---	34,2	---	44	---	42	---	29	---	26	---	7,8	---	22
350	---	37,0	---	42	---	40	---	25	---	22	---	3,0	---	20

Fire performance

Flame retardancy

in compliance with IEC 60332-1 Standard requirement

Smoke density

in compliance with IEC 61034-2 Standard requirement - transmittance typical 88%

Halogen acid gas

in compliance with EN 50267-2-1 and IEC 60754-1 Standards requirement - max 0,5% of HCl

Degree of acidity of gases

in compliance with EN 50267-2-2 and IEC 60754-2 Standards requirement - PH >4,3 / conductivity <10μS/mm

Heat release

724 MJ/km (0,201 kWh/m)

Approvals

N/A

Standard reference

EN 50288-1; EN 50288-5-1; EN 50173; IEC 61156-5; ISO/IEC 11801; ANSI/TIA/EIA 568-C.2

Other properties

Max operating voltage

125 V (not for power purposes)

Max pull strength

100 N

Operating temperature range

fixed -20/+75 °C - during installation -5/+50 °C

Min bend radius

10 x outer Ø [mm]

note/s:

note

- free of paint wetting impairment substance (eg. silicone)

DATE:

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