

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

**Construction**  
 Inner conductor: solid bare copper wire 23/1AWG (1×0,57 mm) - nom. cross section 0,25 mm<sup>2</sup>  
 Insulation: foam-skin polyethylene (NO RJ-45 plug compatible)  
 Insulation colours: white/blue, blue, white/orange, orange, white/green, green, white/brown, brown  
 Core assembly: the cores will be stranded to a pair - (1) white/blue+blue, (2) white/orange+orange, (3) white/green+green, (4) white/brown+brown  
 Pair assembly: the four pair will be stranded together around a central cross-web halogen free filler  
 Separation: polyester (PET) tape  
 Global shield: - aluminium/polyester tape (inside aluminium surface) with 20% overlap  
 - solid tinned copper drain wire 26/1AWG (1×0,40 mm)  
 Outer jacket: FRNC-LSZH compound - orange similar to RAL2003 colour  
 outer Ø: 7,2 (± 0,2) mm - nom. thickness: 0,6 mm  
 Copper weight: 23,0 kg/km  
 Total weight: approx. 62 kg/km  
 Printing (ink-jet): #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**

<b>Max DC conductor resistance</b>	74,5 Ω/km
<b>Capacitance</b>	46 pF/m
<b>Max capacitance unbalance</b>	1600 pF/km
<b>Propagation velocity @ 100 MHz</b>	approx. 75 %
<b>Propagation delay @ 100 MHz</b>	nom 460 nsec/100m (max 520 nsec/100m)
<b>Delay skew (4÷250 MHz)</b>	nom 25 nsec/100m (max 45 nsec/100m)
<b>Characteristic impedance</b>	100 Ω (± 15%)
<b>Dielectric strength (cond./cond. - cond./shield)</b>	0,7 kVac × 1 min
<b>Min insulation resistance</b>	5,0 GΩ×km
<b>Transfer impedance</b>	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	---	---
16	7,6	7,1	56,2	69	54,2	67	46,0	68	43,0	65	46,6	59,9	25,0	31
20	8,5	8,0	54,8	66	52,8	63	44,0	65	41,0	62	44,3	56,0	---	---
31,25	10,7	10,2	51,9	64	49,9	62	40,1	55	37,1	52	39,2	51,8	23,6	30
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**

<b>Flame retardancy</b>	in compliance with IEC 60332-1 Standard requirement
<b>Smoke density</b>	in compliance with IEC 61034-2 Standard requirement - transmittance typical 88%
<b>Halogen acid gas</b>	in compliance with EN 50267-2-1 and IEC 60754-1 Standards requirement - max 0,5% of HCl
<b>Degree of acidity of gases</b>	in compliance with EN 50267-2-2 and IEC 60754-2 Standards requirement - PH >4,3 / conductivity <10µS/mm
<b>Heat release</b>	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**

<b>Max operating voltage</b>	125 V (not for power purposes)
<b>Max pull strength</b>	100 N
<b>Operating temperature range</b>	fixed -20/+75 °C - during installation -5/+50 °C
<b>Min bend radius</b>	10 x outer Ø [mm]

MD T007A	<b>note/s:</b> note	- free of paint wetting impairment substance (eg. silicone)	
	<b>DATE:</b> data	<b>01/09/2010</b>	<b>FILLED IN BY:</b> compilato
		<b>DAVIDE GIACCARELLO</b>	<b>AUTHORIZED:</b> visto