

NUMBER: numero	3022e	revision: revisione	00	cause of release: emissione	<input checked="" type="checkbox"/> information informazione	<input type="checkbox"/> definitive definitiva	ITEM CODE: codice articolo	0562708
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ITEM DESCRIPTION: descrizione articolo	DATABIT DTB-H C-6 S/FTP FRNC-LSZH 4x2x23/1AWG CATEGORY 6 (tested up to 350 MHz) (ETHERNET™ CABLE) for fixed installation
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USE: 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"/>	INSTALLATION: 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>	INFORMATION: 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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Construction

Inner conductor	solid bare copper wire 23/1AWG (1x0,57 mm) - nom. cross section 0,25 mm ²
Insulation	foam-skin polyethylene (NO RJ-45 plug compatible)
Insulation colour	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 (outside aluminium surface) with 20% overlap - tinned copper wire braid with 55% coverage
Outer jacket	FRNC-LSZH compound - orange similar to RAL2003 colour outer Ø: 7,5 (± 0,2) mm - nom. thickness: 0,65 mm
Copper weight	28,0 kg/km
Total weight	approx. 68 kg/km
Printing (ink-jet)	#P/N 0562708# CEAM DTB-H C-6 S/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	10 mΩ/m @1MHz - 10 mΩ/m @10MHz - 30 mΩ/m @30MHz - 100 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

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	742 MJ/km (0,206 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	130 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)

MD T007A

DATE: data	01/09/2010	FILLED IN BY: compilato	Davide Giaccarello	AUTHORIZED: visto	
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