

TECHNICAL CABLE DATA SHEET

SCHEDA TECNICA DI PRODOTTO

NUMBER: numero	3022e	revision: revisione	00	cause of release: emissione	☒ information informazione	☐ definitive definitiva	ITEM CODE: codice articolo	0562708
ITEM DESCRIPTION: DATABIT DTB-H C-6 S/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 ☐		

Construction

Inner conductor solid bare copper wire 23/1AWG (1x0,57 mm) - nom. cross section 0,25 mm²
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
Outer jacket - tinned copper wire braid with 55% coverage
 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	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		
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]

MD T007A	note/s: note - free of paint wetting impairment substance (eg. silicone)		
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