

NUMBER: numero	3029e	revision: revisione	00	cause of release: emissione	<input checked="" type="checkbox"/> information informazione	<input type="checkbox"/> definitive definitiva	ITEM CODE: codice articolo	0562057
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ITEM DESCRIPTION: descrizione articolo	DATABIT DTB-Y C-5e UTP 4x2x24/1AWG CATEGORY 5e (tested up to 200 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 24/1AWG (1x0,51 mm) - nom. cross section 0,22 mm ²
Insulation	solid polyethylene - max Ø 1,0 mm (RJ-45 plug connector 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
Separation (optional)	polyester (PET) tape
Outer jacket	flame retardant PVC compound - grey similar to RAL7032 colour outer Ø: 5,5 (± 0,2) mm - nom. thickness: 0,65 mm
Copper weight	17,6 kg/km
Total weight	approx. 40 kg/km
Printing (ink-jet)	#P/N 0562057# CEAM DTB-Y C-5e UTP 4x2x24/1AWG 100 OHM 75°C CAT.5 ENHANCED - TIA/EIA568-A5 - EN50173 - ISO/IEC11801

Electrical and transmission properties @ 20°C

Max DC conductor resistance	93,0 Ω/km
Capacitance	51 pF/m
Max capacitance unbalance	1600 pF/km
Propagation velocity @ 100 MHz	approx. 67 %
Propagation delay @ 100 MHz	nom 490 nsec/100m (max 520 nsec/100m)
Delay skew (4÷100 MHz)	nom 15 nsec/100m (max 45 nsec/100m)
Characteristic impedance (1÷100 MHz)	100 Ω (± 15%)
Dielectric strength (cond./cond.)	0,7 kVac × 1 min
Min insulation resistance	5,0 GΩ×km

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	65,3	75	62,3	72	63,8	73	61,0	70	60,2	70,1	23	26
4	4,0	3,8	56,3	67	53,3	64	51,8	61	49,0	58	49,3	60,2	24,5	28
10	6,3	6,0	50,3	60	47,3	57	43,8	53	41,0	50	41,0	51,0		
16	8,0	7,7	47,2	57	44,2	54	39,7	49	36,8	46	36,2	46,3	25	30
20	9,0	8,6	45,8	56	45,8	53	37,8	47	35,0	44	36,8	44,4		
31,25	11,4	10,8	42,9	53	39,9	50	33,9	44	31,1	41	28,5	39,2	23,6	28
62,5	16,5	15,7	38,4	48	35,4	45	27,9	37	25,1	34	18,9	29,4	21,5	27
100	21,3	20,0	35,3	45	32,3	42	23,8	33	21,0	30	11,0	22,0	20,1	25
125	---	23,7	---	43	---	40	---	31	---	28	---	16,3	---	23
155,52	---	26,3	---	41	---	38	---	29	---	26	---	11,7	---	21
200	---	30,0	---	39	---	36	---	27	---	24	---	6,0	---	19

Fire performance

Flame retardancy	in compliance with IEC 60332-1 Standard requirement
Heat release	607 MJ/km (0,168 kWh/m)

Approvals

Standard reference	EN 50288-1; EN 50288-3-1; EN 50173; IEC 61156-2; ISO/IEC 11801; ANSI/TIA/EIA 568-C.2
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Other properties

Max operating voltage	125 V (not for power purposes)
Max pull strength	80 N
Operating temperature range	fixed -20/+75 °C - during installation -5/+50 °C
Min bend radius (fixed)	10 x outer Ø [mm]

note/s:

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

MD T007A	DATE: data	03/09/2010	FILLED IN BY: compilato	DAVIDE GIACCARELLO	AUTHORIZED: visto	