

STANDARDS

ANSI/TIA-568-C.2
IEC 61156-5
EN 50288-4-1
EN 50173
ISO/IEC 11801
EN 50575
EN 50399
EN 13501-6

APPLICATIONS

10BASE-T (IEEE 802.3)
4/16 Mbps TOKEN RING (IEEE 802.5)
100BASE-VG-AnyLAN
100 Mbps TP-PMD (ANSI X3T9.5)
100BASE-T (IEEE 802.3)
55/155 Mbps ATM
1000BASE-T (Gigabit Ethernet)
1.2 / 2.4 Gbps ATM
10G BASE-T

REACTION TO FIRE

Class: D_{ca}-s2,d2,a1
(according to EN 13501-6)

COLOUR CODES

Pairs	Colours Combinations
1	White / Blue
2	White / Orange
3	White / Green
4	White / Brown

Outer sheath colour: White [BL]

PART NUMBER / PACKAGING

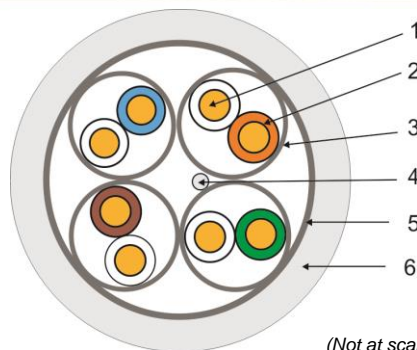
591D041BLP / Reels 500m
591D042BLP / Reels 1000m

OTHER CHARACTERISTICS

Storage Temperature -20°C to 70°C
Operating Temperature -20°C to 70°C

Laying Temperature -5°C to +50°C
(recommendation: between -5°C and +5°C,
prior storage 24h at 20°C)

Edition: March 2017



(Not at scale)

CONSTRUCTION

- 1 – Conductor: 23 AWG, Solid Bare Annealed Copper.
- 2 – Insulation: Polyolefin Foam-Skin.
- 3 – Varying short pair lay-length (4 pairs).
Individual Aluminium/polyester shielding.
- 4 – Tinned copper drain wire.
- 5 – Overall Aluminium/polyester shielding.
- 6 – Sheath: LSZH material.

ELECTRICAL AND DIMENSIONAL CHARACTERISTICS

Max. dc Resistance (Ω/km) @20°C:	95.0
Nom. Mutual Capacity (nF/km)@1kHz:	56
NVP (% of light speed):	70
Mean input Impedance (Ω):	100 ± 5 @ 100MHz
Propagation delay (ns@10MHz):	max. 518
Delay Skew (ns/100m):	max. 40
Coupling Att dB (min.):	@30-100MHz 75 @100-1000MHz 75-20log(f/100)
Max. pulling tension (N):	80

	Approx. outer diameter (mm)	Approx. weight (kg/km)	Min. bending radius (mm)
Euroclass D _{ca}	8.0	59.5	32

TRANSMISSION CHARACTERISTICS

Freq	ATTN	NEXT	PS-NEXT	ELFEXT		ACR	PS-ACR	RL
				(ACR-F)	(PSACR-F)			
MHz	dB/100m (max.)	dB (min.)	dB (min.)	dB/100m (min.)	dB/100m (min.)	dB/100m (min.)	dB/100m (min.)	dB/100m (min.)
1*	2.0	78.0	75.0	78.0	75.0	76.0	73.0	20.0
4	3.7	78.0	75.0	78.0	75.0	74.3	71.3	23.0
8	5.2	78.0	75.0	77.2	74.2	72.8	69.8	24.5
10	5.9	78.0	75.0	75.3	72.3	72.1	69.1	25.0
16	7.4	78.0	75.0	71.2	68.2	70.6	67.6	25.0
25	9.3	78.0	75.0	67.3	64.3	68.7	65.7	24.3
31.25	10.4	78.0	75.0	65.4	62.4	67.6	64.6	23.6
62.5	14.9	75.5	72.5	59.4	56.4	60.6	57.6	21.5
100	19.0	72.4	69.4	55.3	52.3	53.4	50.4	20.1
155	24.0	69.5	66.5	51.5	48.5	45.6	42.6	18.8
200	27.5	67.9	64.9	49.3	46.3	40.4	37.4	18.0
250	31.0	66.4	63.4	47.3	44.3	35.5	32.5	17.3
300	34.2	65.2	62.2	45.8	42.8	31.1	28.1	17.3
350	37.2	64.2	61.2	44.4	41.4	27.1	24.1	17.3
400	40.0	63.4	60.4	43.3	40.3	23.4	20.4	17.3
500	45.3	61.9	58.9	41.3	38.3	16.7	13.7	17.3
600	50.1	60.7	57.7	39.7	36.7	10.6	7.6	17.3

* For information only.

Note: DATA cables are not suitable for low impedance applications as: heating, lighting, etc...

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