

STANDARDS

ANSI/TIA-568-C.2
IEC 61156-5
EN 50288-3-1
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)

REACTION TO FIRE

Class: F_{ca}
(according to EN 13501-6)

COLOUR CODES

Pairs Colours Combinations

1 White-Blue / Blue
2 White-Orange / Orange
3 White-Green / Green
4 White-Brown / Brown

External sheath colour: Black [NG]

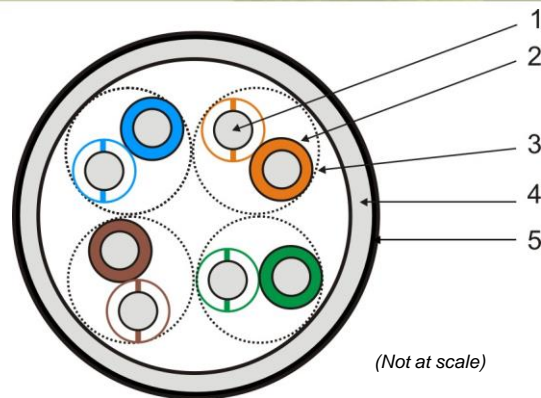
PART NUMBER / PACKAGING

60080868 / Spools 500m
60080871 / Spools 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)



(Not at scale)

CONSTRUCTION

- 1 – Conductor: 24 AWG, Solid Bare Annealed Copper.
- 2 – Insulation: Polyolefin.
- 3 – Varying short pair lay-length (4 pairs).
- 4 – Inner sheath: PVC material.
- 5 – Outer sheath: PE material.

ELECTRICAL AND DIMENSIONAL CHARACTERISTICS

Max. dc resistance (Ω/km) @20°C: 93.8
Nom. mutual capacity (nF/km)@1kHz: 56
NVP (% of light speed): 65
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 40
@100-1000MHz 40-20log(f/100)
Max. pulling tension (N): 80

	Approx. outer diameter (mm)	Approx. weight (kg/km)	Min. bending radius (mm)
Euroclass F _{ca}	6.4	42.8	25

TRANSMISSION CHARACTERISTICS

Freq	ATTN	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	ACR	PS-ACR	RL
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	65.3	62.3	63.8	60.8	63.3	60.3	20.0
4	4.1	56.3	53.3	51.8	48.8	52.2	49.2	23.0
8	5.8	51.8	48.8	45.7	42.7	46.0	43.0	24.5
10	6.5	50.3	47.3	43.8	40.8	43.8	40.8	25.0
16	8.2	47.2	44.2	39.7	36.7	39.0	36.0	25.0
25	10.4	44.3	41.3	35.8	32.8	33.9	30.9	24.3
31.25	11.7	42.9	39.9	33.9	30.9	31.2	28.2	23.6
62.5	17.0	38.4	35.4	27.9	24.9	21.4	18.4	21.5
100	22.0	35.3	32.3	23.8	20.8	13.3	10.3	20.1
125*	24.9	33.8	30.8	21.9	18.9	9.0	6.0	19.4
155*	28.1	32.4	29.4	20.0	17.0	4.4	1.4	18.8
200*	32.4	30.8	27.8	17.8	14.8	---	---	18.0

* For information only.