

### STANDARDS

ANSI/TIA-568-C.2  
IEC 61156-5  
EN 50288-6-1  
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 Gbps ATM  
10G BASE-T (Length<50m)

### 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

Outer sheath colour: Black [NG]

### PART NUMBER / PACKAGING

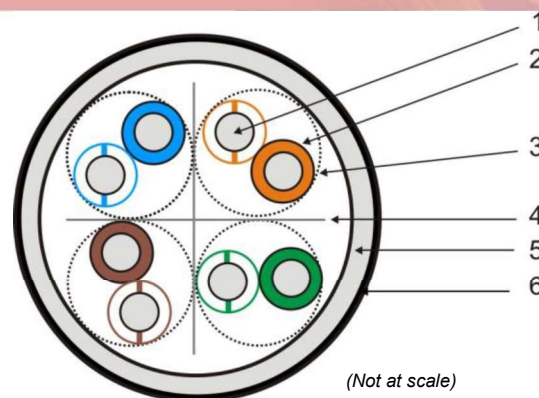
577F041NGP / Spools 500m  
577F042NGP / Spools 1000m

### 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)

Edition: May 2017



### CONSTRUCTION

- 1 – Conductor: 23 AWG, Solid Bare Annealed Copper.
- 2 – Insulation: Polyolefin.
- 3 – Varying short pair lay-length (4 pairs).
- 4 – Cross Filler.
- 5 – Inner Sheath: PVC material.
- 6 – Outer Sheath: PE material.

### ELECTRICAL AND DIMENSIONAL CHARACTERISTICS

Max. dc resistance ( $\Omega$ /km) @20°C:	93.8
Nom. mutual capacity (nF/km)@1kHz:	56
NVP (% of light speed):	65
Mean input impedance ( $\Omega$ ):	100 $\pm$ 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 $F_{ca}$	7.2	52.8	29

### TRANSMISSION CHARACTERISTICS

Freq MHz	ATTN dB/100m (max.)	NEXT dB (min.)	PS-NEXT dB (min.)	ELFEXT (ACR-F)		PS-ELFEXT (PSACR-F)		RL dB/100m (min.)
				dB/100m (min.)	dB/100m (min.)	dB/100m (min.)	dB/100m (min.)	
1	2.0	75.3	72.3	68.0	65.0	73.2	70.2	20.0
4	3.8	66.3	63.3	58.0	55.0	62.5	59.5	23.0
8	5.2	61.8	58.8	51.9	48.9	56.5	53.5	24.5
10	5.9	60.3	57.3	50.0	47.0	54.4	51.4	25.0
16	7.4	57.2	54.2	45.9	42.9	49.9	46.9	25.0
25	9.2	54.3	51.3	42.0	39.0	45.0	42.0	24.3
31.25	10.3	52.9	49.9	40.1	37.1	42.6	39.6	23.6
62.5	14.5	48.4	45.4	34.1	31.1	33.8	30.8	21.5
100	18.4	45.3	42.3	30.0	27.0	26.9	23.9	20.1
155	22.9	42.4	39.4	26.2	23.2	19.5	16.5	18.8
200	26.1	40.8	37.8	24.0	21.0	14.7	11.7	18.0
250	29.2	39.3	36.3	22.0	19.0	10.1	7.1	17.3
300*	32.0	38.1	35.1	20.5	17.5	6.1	3.1	17.3
350*	34.7	37.1	34.1	19.1	16.1	2.5	1.0	17.3

\* For information only.

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

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