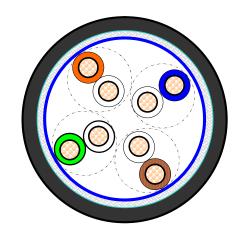


TECHNICAL DATASHEET	code	74002NH
PRELIMINARY	version	2
	datel	2011-04-26
4 PR CAT5E SF/UTP PATCH 26AWG FRNC	page	1/3

STANDARDS

- ISO/IEC 11801 2nd edition (September 2002) and ISO/IEC 24702
- EN 50173 1 (November 2002).
- TIA/EIA-568-B.2 (May 2001).

CABLE CONSTRUCTION



Conductor:

Material Stranded PACW

Construction 7X0.16 mm (26 AWG)

Insulation:

Material PP solid

Diameter 0.98 mm +/- 0.05

Pair

Pair 2 twisted insulated conductors

Number of pairs 4, all twisted together Left hand lay.

Colour code pair 1 White / Blue & Blue

Colour code pair 2 White / Orange & Orange Colour code pair 3 White / Green & Green

Colour code pair 4 White / Brown & Brown

Tape (optional)

Material Polyester tape

Foil-Screen

Material Al/Polyester (Al side outside)

Braided Screen:

Material tinned copper

Coverage >80%

Sheath:

Material FRNC UV and oil resistant

Diameter 6.5 +/- 0.3 mm

Colour Black



TECHNICAL DATASHEET	code	74002NH
PRELIMINARY	version	2
	datel	2011-04-26
4 PR CAT5E SF/UTP PATCH 26AWG FRNC	page	2/3

ELECTRICAL CHARACTERISTICS

Low frequency and D.C.

D.C. resistance conductor $$<145\ \Omega/km$$ Resistance unbalance $$<2\ \%$

D.C. insulation resistance $> 5000 \text{ M}\Omega.\text{km}$ Dielectric strength cond. - cond. (2 sec.) 2.5 kV D.C. Mutual capacitance < 56 nF/km Capacitance unbalance < 1600 pF/km

High frequency

Velocity of propagation @ 4 − 100 MHz ≥ 0.6 c

Skew @ 1 − 100 MHz ≤ 40 ns/100m

Propagation delay @ 1 - 100 MHz $\leq 534 + 36/\text{Vf ns}/100\text{m}$

Mean characteristic impedance (Zcm) @ 100 MHz $100 \pm 5~\Omega$ Input impedance 1-100MHz $100 \pm 15~\Omega$

Frequency	Insertion loss dB/100m (max)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB)	PS ELFEXT (dB)	Return Loss (dB)
0.772	-	67	64	,	,	19.4
1	3.2	65.3	62.3	63.8	60.8	20
4	6.0	56.3	53.3	51.8	48.8	23
10	9.5	50.3	47.3	43.8	40.8	25
16	12.1	47.2	44.2	39.7	36.7	25
20	13.6	45.8	42.8	37.8	34.8	25
25	15.3	44.3	41.3	35.8	32.8	24.3
31.25	17.1	42.9	39.9	33.9	40.9	23.6
62.5	24.8	38.3	35.4	27.9	24.9	21.5
100	32	35.3	32.3	23.8	20.8	20.1

MECHANICAL CHARACTERISTICS

Elongation at break conductor ≥ 10 %Elongation at break insulation ≥ 100 %Elongation at break sheath ≥ 100 %Tensile strength sheath ≥ 9 Mpa

ENVIRONMENTAL AND OVERALL CHARACTERISTICS

Maximum operating voltage 450 V D.C. and 300 V A.C.

Maximum continuous current per conductor (@25°C)

1.0 A rms

Halogenfree acc to

IEC 60754-2

Oil resistant acc

IEC 60811-2-1

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TECHNICAL DATASHEET	code	74002NH
PRELIMINARY	version	2
	datel	2011-04-26
4 PR CAT5E SF/UTP PATCH 26AWG FRNC	page	3/3

Maximum pulling tension80 NMinimum setting/bending radius35/70 mmTemperature range during installation-5 / +50 °CTemperature range during operation-40 / +80 °CFlame propagationIEC 60332-1



Belden CDT believes this product to be in compliance with the environmental regulations EU RoHS (Directive 2002/95/EC, 27 January 2003); this is valid for all material produced after the RoHS compliant date for this product.