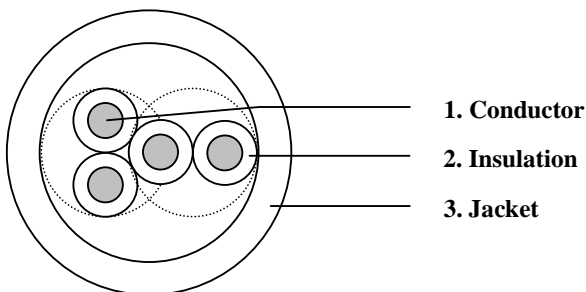


**TECHNICAL DATSHEET**EPN **7702NH**  
date **2003-02-24**  
repl. **2003-02-11**  
page **1/2****7702 NH (D2Y-H 2x2x0.64 mm)****OVERVIEW CODES**


Code number	Color code xxxx	Put-up yyy	Color	Put-up length
50007	3534	000	White	305 -0/+30 meter

**APPLICATION**

Instrumentation and computer cables for data transmission applications.

**CONSTRUCTION****1. Conductor**Material Solid bare copper  
Dimensions 0.64 mm (AWG22)**2. Insulation**Material Polyethylene  
Diameter 1.12 +/- 0.05 mm  
Minimum wall thickness 0.23 mm  
Colors in twisted pairs white/blue and blue/white; orange/white and white/orange; ring marking  
Laylength white-blue pair 21.6 mm  
Laylength white-orange pair 25.8 mm  
Stranding elements 2 pairs  
Stranding lay 80 mm**3. Jacket**Material FRNC  
Diameter 5.20 +/- 0.4 mm  
Minimum wall thickness 0.5 mm  
Color White (like RAL 9003)**REQUIREMENTS AND TEST METHODS****Electrical:**

Nominal impedance (1-20 MHz)	100 Ohm
Nominal attenuation at 0.772 MHz	1.3 dB/100m
1 MHz	1.5 dB/100m
4 MHz	3.1 dB/100m
10 MHz	4.9 dB/100m
16 MHz	6.3 dB/100m
20 MHz	6.9 dB/100m
Nominal NEXT at 1 MHz	59 dB

	<b>TECHNICAL DATSHEET</b>	EPN <b>7702NH</b>
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4 MHz	50 dB
10 MHz	44 dB
16 MHz	41 dB
20 MHz	40 dB
Nominal capacitance conductor to conductor @ 1kHz	46 pF/m
Nominal conductor DC resistance @ 20°C	55 Ohm/km
Maximum operating voltage	300 V rms
Maximum continuous current per conductor	2.5 A

**Mechanical and physical:**

Maximum pulling tension	50 N
Minimum bending radius	80 mm
Copper weight	11.7 kg/km
Total weight	31.2 kg/km
Temperature rating	-15 to + 80 °C
Flame resistance	IEC 60332-3C
Applicable specification	BS 7655 Section 6.1 table 1 LTS 3

**MARKING**

Color code	Jacket color	RAL	Text
3534	White	9003	BELDEN 7702NH 2 PAIR 22 AWG LSNH IEC 60332-3C

Datemarking: Yes; format YYDDD, where YY = 2 digit year number, and DDD = day of the year

Metermarking: Yes

**PACKAGING**

Put-up code	Put-up length	Put-up type
000	305 -0/+30 meter	Non-returnable reel

Each reel is labeled with the following data:  
Belden Logo. Belden code number. Item description.  
Length on the reel. Date of manufacture. CE-marking.

Nominal values are for information only.