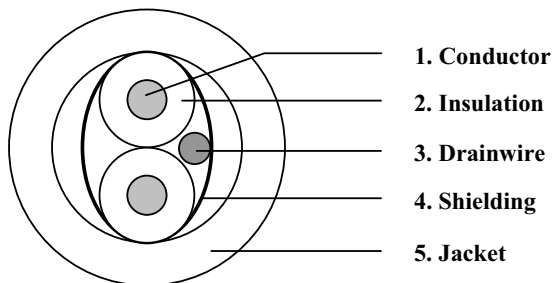


**TECHNICAL DATASHEET**EPN **7703NH**  
date **2003-02-24**  
repl. **2003-02-12**  
page **1/2****7703 NH (D02YS-(ST)Y 2x0.64 mm)****OVERVIEW CODES**

Code number	Color code xxxx	Put-up yyy	Color	Put-up length
50008	3537	000	White	305 -0/+30 meter
50008	3537	250	White	305 -0/+30 meter
50008	3537	500	White	500 -0/+50 meter

**APPLICATION**

Instrumentation and computer cables for data transmission applications.

**CONSTRUCTION****1. Conductor**Material  
DimensionsSolid bare copper  
0.64 mm (AWG22)**2. Insulation**Material  
Diameter  
Minimum wall thicknessFoam skinned polyethylene  
1.55 +/- 0.05 mm  
0.40 mm**3. Drainwire**Material  
Dimension  
Colors in twisted pair  
Stranding elements  
Stranding laySolid tinned copper  
0.52 mm (AWG24)  
white/blue and blue/white; ring marking  
1 pair and drainwire  
47 mm**4. Shielding**Material  
Position aluminum  
Laylength foil  
CoverageAluminum-polyester  
Inside  
47 mm  
100%**5. Jacket**Material  
Diameter  
Min. wall thickness  
ColorFRNC  
4.60 +/- 0.4 mm  
0.45 mm  
White (like RAL 9003)**REQUIREMENTS AND TEST METHODS****Electrical:**

**TECHNICAL DATASHEET**EPN **7703NH**  
date **2003-02-24**  
repl. **2003-02-12**  
page **2/2****7703 NH (D02YS-(ST)Y 2x0.64 mm)**

Nominal impedance (1-20 MHz)	100 Ohm
Nominal attenuation at 0.772 MHz	1.8 dB/100m
1 MHz	2.0 dB/100m
4 MHz	3.6 dB/100m
10 MHz	5.5 dB/100m
16 MHz	7.0 dB/100m
20 MHz	7.8 dB/100m
Nominal capacitance conductor to conductor @ 1kHz	40 pF/m
Nominal capacitance conductor to shield @ 1 kHz	80 pF/m
Nominal conductor DC resistance @ 20°C	55 Ohm/km
Nominal shield DC resistance @ 20°C	34 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	7.7 kg/km
Total weight	26.6 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	Sheath color	RAL	Text
3537	White	9003	BELDEN 7703NH 1 PAIR 22 AWG SHIELDED 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
250	305 -0/+30 meter	Non-returnable plastic reel
500	500 -0/+50 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.