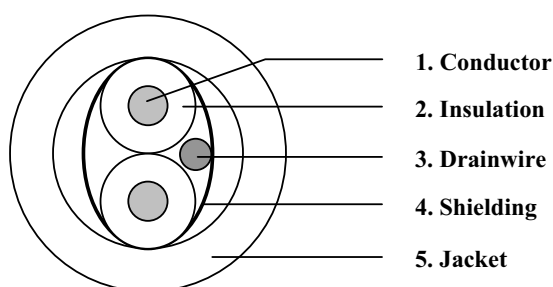


**TECHNICAL DATASHEET**EPN **7703NH**date **2003-02-24**repl. **2003-02-12**page **1/2****7703 NH (D02YS-(ST)Y 2x0.64 mm)****OVERVIEW CODES**

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

Solid bare copper

Dimensions

0.64 mm (AWG22)

2. Insulation

Material

Foam skinned polyethylene

Diameter

1.55 +/- 0.05 mm

Minimum wall thickness

0.40 mm

3. Drainwire

Material

Solid tinned copper

Dimension

0.52 mm (AWG24)

Colors in twisted pair

white/blue and blue/white; ring marking

Stranding elements

1 pair and drainwire

Stranding lay

47 mm

4. Shielding

Material

Aluminum-polyester

Position aluminum

Inside

Laylength foil

47 mm

Coverage

100%

5. Jacket

Material

FRNC

Diameter

4.60 +/- 0.4 mm

Min. wall thickness

0.45 mm

Color

White (like RAL 9003)

REQUIREMENTS AND TEST METHODS**Electrical:**

**TECHNICAL DATASHEET**EPN **7703NH**
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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.