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
2. Insulation
3. Drainwire
4. Shielding
5. Jacket
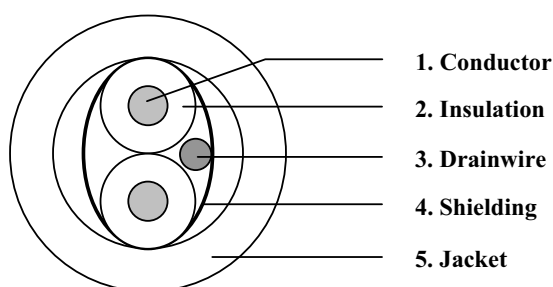
1. Conductor
Material   Solid bare copper
Dimensions   0.64 mm (AWG22)

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

7703 NH (D02YS-(ST)Y 2x0.64 mm)

EPN **7703NH**
date **2003-02-24**
repl. **2003-02-12**
page **2/2**

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.

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