

	<b>TECHNICAL DATA SHEET</b>	code	<b>7703NH</b>
		version	<b>4</b>
		date	<b>2010-04-08</b>
	<b>7703 NH (D02YS-(ST)Y 2x0.64 mm)</b>	page	<b>1/3</b>

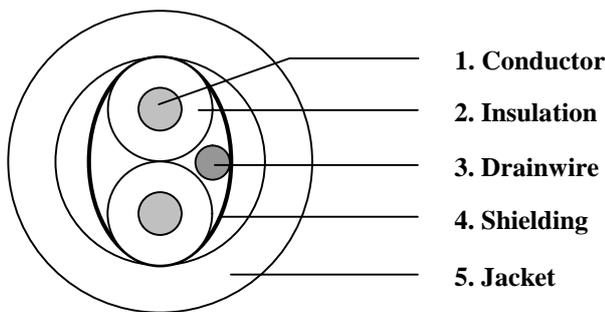
## OVERVIEW CODES

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: 0.51 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

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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:

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

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### 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.



Belden declares 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.