



## TECHNICAL DATA SHEET

concept

4502FE NON-PAIRED

code  
version **1**  
date **2004-04-27**  
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### APPLICATION

Intercom/PA Systems, Sound/Audio Systems.

### CONSTRUCTION



#### 1. Conductor

Diameter of conductor 0.75mm (AWG22)  
Material stranded bare copper (7xAWG30)

#### 2. Insulation

Material PE  
Diameter over insulation  $1.25 \pm 0.05$  mm  
Wallthickness 0.25 mm

#### 3. Overall Cabling

Colour code black-red-white-green

#### 4. Outer shield

Shield Beldfoil®  
Shield Material Aluminium / Polyester tape  
Shield Thickness Alu 9  $\mu$ m  
Shield coverage 100%  
Drainwire AWG24 (7xAWG32) tinned Cu

#### 4. Sheath

Material FRNC  
Colour Grey  
Nominal thickness of sheath 0.38 mm  
Diameter over sheath  $3.9 \pm 0.30$  mm

### REQUIREMENTS AND TEST METHODS

#### Electrical:

Nominal resistance conductor 54  $\Omega$ /km  
Nominal resistance shield 52.8  $\Omega$ /km  
Nom. capacitance conductor to conductor @ 1kHz 105 pF/m  
Nom. capacitance cond. to shield + other cond. @ 1kHz 185 pF/m  
Testvoltage conductor-conductor 2500 VDC, 3 seconds  
Testvoltage conductor-screen 2500 VDC, 3 seconds  
Voltage rating 300 V RMS  
Maximum continues current per conductor @ 25 °C 2.2 A per conductor @ 25 °C

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page **2/2****Mechanical and physical:**

|  |                         |
|--|-------------------------|
| Temperature range processing and operating | -20 to +70 °C           |
| Temperature range storage                  | -30 to +70 °C           |
| Minimum bending/setting radius             | 5*D/10*D                |
| Maximum pulling tension                    | 20 N                    |
| Halogen free according to                  | IEC 60754-1             |
| Non dense smoke according to               | IEC 61034-1 and 61034-2 |
| Non corrosive gas according to             | IEC 60754-2             |
| Flame Retardant according to               | IEC 60332-1             |

**MARKING**

NEW GENERATION(R) BY BELDEN 4300FE HALOGEN FREE 70C 4C22 SHIELDED + sequential meter marking.

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