



TECHNICAL DATA SHEET

concept

4300FE NON-PAIRED

code
version **1**
date **2004-04-20**
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APPLICATION

Commercial applications shielded

CONSTRUCTION



1. Conductor

Diameter of conductor 1.22mm (AWG18)
Material stranded bare copper (7xAWG26)

2. Insulation

Material PE
Diameter over insulation 1.72 ± 0.05 mm
Wallthickness 0.25 mm

3. Overall Cabling

Colour code black – red

4. Outer shield

Shield Beldfoil®
Shield Material Aluminium / Polyester tape
Shield Thickness Alu 9 μ m
Shield coverage 100%
Drainwire AWG20 (7xAWG28) tinned Cu

4. Sheath

Material FRNC
Colour Grey
Nominal thickness of sheath 0.38 mm
Diameter over sheath 4.2 ± 0.30 mm

REQUIREMENTS AND TEST METHODS

Electrical:

Nominal resistance conductor 21.3 Ω /km
Nominal resistance shield 23.6 Ω /km
Nom. capacitance conductor to conductor @ 1kHz 125 pF/m
Nom. capacitance cond. to shield + other cond. @ 1kHz 224 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 3.5 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 | 26 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 2C18 SHIELDED + sequential meter marking.

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