



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
Material

1.22mm (AWG18)
stranded bare copper (7xAWG26)

2. Insulation

Material
Diameter over insulation
Wallthickness

PE
 1.72 ± 0.05 mm
0.25 mm

3. Overall Cabling

Colour code

black – red

4. Outer shield

Shield
Shield Material
Shield Thickness Alu
Shield coverage
Drainwire

Beldfoil®)
Aluminium / Polyester tape
9 μ m
100%
AWG20 (7xAWG28) tinned Cu

4. Sheath

Material
Colour
Nominal thickness of sheath
Diameter over sheath

FRNC
Grey
0.38 mm
 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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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.