



TECHNICAL DATA SHEET

concept

4300FE NON-PAIRED

code

version 1

date 2004-04-20

page 1/2

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



TECHNICAL DATA SHEET

concept

4300FE NON-PAIRED

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