



## TECHNICAL DATA SHEET

concept

4500FE NON-PAIRED

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

Intercom/PA Systems, Sound/Audio Systems.

### CONSTRUCTION



<b>1. Conductor</b>	
Diameter of conductor	0.75mm (AWG22)
Material	stranded bare copper (7xAWG30)
<b>2. Insulation</b>	
Material	PE
Diameter over insulation	1.25 ± 0.05 mm
Wallthickness	0.25 mm
<b>3. Overall Cabling</b>	
Colour code	black-red
<b>4. Outer shield</b>	
Shield	Beldfoil®)
Shield Material	Aluminium / Polyester tape
Shield Thickness Alu	9 µm
Shield coverage	100%
Drainwire	AWG24 (7xAWG32) tinned Cu
<b>4. Sheath</b>	
Material	FRNC
Colour	Grey
Nominal thickness of sheath	0.38 mm
Diameter over sheath	3.30 ± 0.30 mm

### REQUIREMENTS AND TEST METHODS

#### Electrical:

Nominal resistance conductor	54 Ω/km
Nominal resistance shield	54 Ω/km
Nom. capacitance conductor to conductor @ 1kHz	150 pF/m
Nom. capacitance cond. to shield + other cond. @ 1kHz	285 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	2.8 A per conductor @ 25 °C

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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	11 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 4500FE HALOGEN FREE 70C 2C22 SHIELDED + sequential meter marking.

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