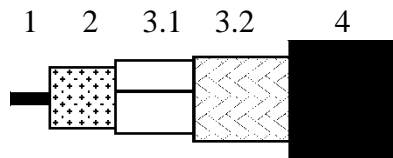
	TECHNICAL DATA SHEET	code	PRG11C0
		version	5
		date	2008-08-13
	COAX PRG11 CU PE	page	1/2

APPLICATION

Coaxial cables used in cabled distribution networks designed according the European Standard EN 50117-2-1 and EN50117-2-4 operating at frequencies between 5 and 3000 MHz.

CONSTRUCTION




1	Inner conductor	Solid soft annealed copper
2	Dielectric	Gas injected PE
3.1	Foil	Copper
3.2	Braid	Annealed copper
4	Sheath	PE according the European Standard HD 624.

REQUIREMENTS AND TEST METHODS

Test methods in accordance with European standard EN 50117-1.

Mechanical characteristics

1. Inner conductor:		
Diameter:		1.55 mm ± 0.02 mm
2. Dielectric:		
Diameter:		7.25 mm ± 0.2 mm
Centricity:		≥ 0.85
Adhesion:		12 – 120 N at 25 mm
3. Outer conductor:		
Diameter screen:		7.9 mm ± 0.25 mm
Foil overlap:		≥ 2 mm
Coverage braid:		46 % ± 5 %
4. Sheath:		
Diameter:		10.1 mm ± 0.3 mm
Tensile strength:		≥ 10 N/mm ²
Elongation at break:		≥ 300 %
5. Cable:		
Crush resistance of cable:		< 1% (load of 700N)
Storage/operating temperature:		-60°C to +70°C
Minimum installation temperature:		-5 °C
Minimum static bend radius:		100 mm

 <small>SENDING ALL THE RIGHT SIGNALS</small>	TECHNICAL DATA SHEET	code	PRG11C0
		version	5
		date	2008-08-13
	COAX PRG11 CU PE	page	2/2

Electrical characteristics

Mean characteristic impedance:	75 ± 3 Ω
Regularity of impedance:	> 46 dB
DC loop resistance:	≤ 20 Ω/km
DC resistance inner conductor:	≤ 9.4 Ω/km
DC resistance outer conductor:	≤ 12.3 Ω/km
Capacitance:	55 pF/m ± 2 pF/m
Velocity ratio:	0.81 ± 0.02
Insulation resistance:	> 10 ⁴ MΩ.km
Voltage test of dielectric:	3 kVdc
Screening efficiency 30-1000 MHz:	≥ 85 dB
Transfer Impedance:	< 15 mOhm/m
Return loss at 5-30 MHz:	≥ 26 dB*
30-470 MHz:	≥ 26 dB*
470-1000 MHz:	≥ 23 dB*
1000-2000 MHz:	≥ 18 dB*
2000-3000 MHz:	≥ 16 dB*

*Max. 3 peak values 4 dB lower than specified.

Attenuation at	Nominal	Attenuation at	Nominal
5 MHz:	0.9 dB/100m	1350 MHz:	16.1 dB/100m
50 MHz:	2.8 dB/100m	1600 MHz:	17.8 dB/100m
100 MHz:	3.9 dB/100m	1750 MHz:	18.7 dB/100m
200 MHz:	5.7 dB/100m	2150 MHz:	21.1 dB/100m
400 MHz:	8.2 dB/100m	2400 MHz:	22.5 dB/100m
600 MHz:	10.2 dB/100m	2600 MHz:	23.6 dB/100m
800 MHz:	12.0 dB/100m	2800 MHz:	24.7 dB/100m
1000 MHz:	13.6 dB/100m	3000 MHz:	25.7 dB/100m

Maximum attenuation is 10% higher.

REVISIONS

#	Description	Date	Initials
4	Operating temperature changed from -40C to -60C	12-08-2008	PMB
5	Added Transfer Impedance, change DC resistance outer conductor from 10.6 to 12.3 Ohm/m	13-08-2008	PMB



Belden declares this product to be in compliance with the environmental regulations EU RoHS (Directive 2002/95/EC, 27 January 2003); this is valid for all material produced after the RoHS compliant date for this product.