

# **TECHNICAL DATA SHEET**

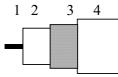
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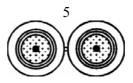
## **COAX RG59 PVC TWIN**

### **APPLICATION**

Coaxial cables used in cabled distribution networks designed according the European Standard EN 50117 operating at frequencies between 5 MHz and 860 MHz and the International Standard IEC 1196.

### **CONSTRUCTION**





- Inner conductor 1
- 2 Dielectric
- 3 Braid 4 Sheath
- 5 Figure 8
- Copper clad steel Solid PE
- Annealed copper
  - PVC 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:	$0.58~\text{mm}\pm0.02~\text{mm}$			
2. Dielectric:					
	Diameter:	$3.7 \text{ mm} \pm 0.15 \text{ mm}$			
3. Outer conductor:					
	Diameter screen:	$4.3 \text{ mm} \pm 0.2 \text{ mm}$			
	Coverage braid:	91 % ± 4 %			
4. Sheath:					
	Diameter:	$6.25 \text{ mm} \pm 0.2 \text{ mm}$			
	Tensile strength:	$\geq$ 12.5 N/mm <sup>2</sup>			
	Elongation at break:	$\geq 150 \%$			
5. Figure 8:					
	Width:	$12.5 \pm 0.4 \text{ mm}$			
6. Cable:					
	Crush resistance of cable:	< 1% (load of 700N)			
	Storage/operating temperature:	-15°C to +70°C			
	Minimum installation temperature:	-5 °C			
	Minimum static bend radius:	35 mm			
	Total weight:	100 g/m			

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Electrical characteristics						
Mean characteri	stic impedance:	$75\pm3~\Omega$				
Regularity of im						
DC resistance in						
Capacitance:		$67 \text{ pF/m} \pm 2$	pF/m			
Velocity ratio: nominal 0.66						
Insulation resista	ance:	$> 10^4 \mathrm{M}\Omega.\mathrm{kr}$	n			
Voltage test of c	lielectric:	2 kVdc				
Return loss at	5-30 MHz:	$\geq 20 \text{ dB}^*$				
	30-470 MHz:	$\geq 20 \text{ dB*}$				
	470-862 MHz:	$\geq 18 \text{ dB*}$				
*Max. 3 peak values 4 dB lower than specified.						
Attenuation at	Nominal					
	2.9  dB/100 m	1000 MHz.	42.9 dB/100r	2		
50 MHZ:		1350 MHz:				
	11.6 dB/100m		54.5 dB/100r			
	18.3 dB/100m		57.0 dB/100r			
	21.2 dB/100m		63.0 dB/100r			
	25.0 dB/100m	2100 101112.				

Maximum attenuation is 10% higher.

470 MHz: 27.5 dB/100m

39.2 dB/100m

860 MHz: