

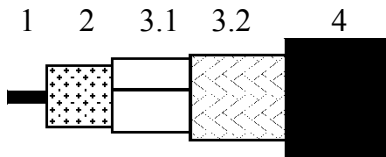
## Application

Coaxial cables used with radio antenna's and in mobile communication networks

## Key features

- Flexible thin 50 Ohm coaxial cable for outdoor use
- Designed according International Standard IEC 1196
- Designed according the European Standard EN 50117 operating at frequencies between 5 MHz and 2150 MHz
- Test methods in accordance with European standard EN 50117-1.

## Construction & Dimensions



1	Inner conductor	Soft annealed copper
2	Dielectric	Gas injected PE
3.1	Foil	AL-PET-AL
3.2	Braid	Tinned copper
4	Sheath	PE (black) according the European Standard HD 624.

1. Inner conductor diameter:	19 x 0.28 mm
2. Dielectric diameter:	3.9 mm
3. Outer conductor diameter screen:	4.5 mm
4. Sheath diameter:	5.4 mm

## Mechanical characteristics

Storage temperature:	-40°C to +80°C
Operating temperature:	-40°C to +80°C
Minimum installation temperature:	-5 °C
Minimum static bend radius:	35 mm
Total weight:	38 g/m



**Electrical characteristics**

Mean characteristic impedance:	50 Ω
DC loop resistance:	≤ 32 Ω/km
DC resistance inner conductor:	≤ 15 Ω/km
DC resistance outer conductor:	≤ 17 Ω/km
Capacitance:	82 pF/m
Velocity ratio:	0.81
Screening efficiency 30-1000 MHz:	≥ 75 dB
Return loss at 5-470 MHz:	≥ 22 dB*
470-862 MHz:	≥ 16 dB*

Attenuation at	Nominal	Attenuation at	Nominal
10 MHz:	3.0 dB/100m	470 MHz:	20.7 dB/100m
50 MHz:	6.5 dB/100m	860 MHz:	28.5 dB/100m
100 MHz:	9.3 dB/100m	1000 MHz:	30.9 dB/100m
230 MHz:	14.2 dB/100m	1350 MHz:	36.4 dB/100m
300 MHz:	16.3 dB/100m	1750 MHz:	41.9 dB/100m
400 MHz:	19.0 dB/100m	2050 MHz:	45.8 dB/100m

**Ordering information**

**PACKAGING (PUT UP)**

Belden code	Delivery length	Remark
49225 xxxx 177	100 m ± 2%	Carton box
49225 xxxx 240	1000 m ± 5%	Non returnable reel

xxxx: Color code

Note: Other packaging or lengths on request.