

FRG-60

Drop Coaxial Cable

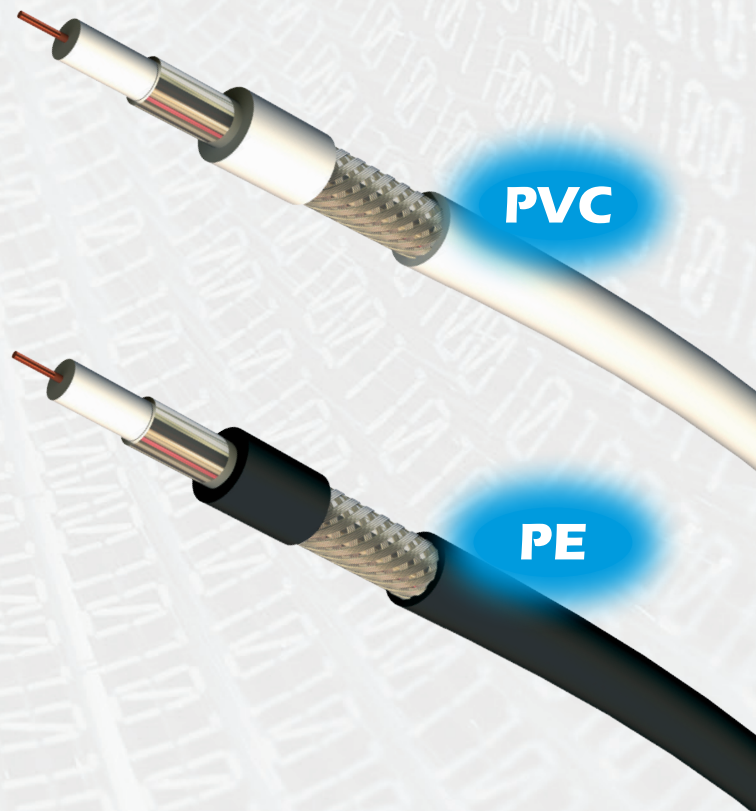
APPLICATION

Fenger FRG-60 drop coaxial cable is the reliable, cost effective solution for today's satellite and terrestrial digital antenna systems. Designed and manufactured to the broadband industry's standards, Fenger cable provides the lowest possible cost, while meeting or exceeding EN 50117 specifications to ensure reliable, long-life performance.

FEATURES & BENEFITS

- *Meets or exceeds all applicable standards*
- *Copper-clad center conductor*
- *Low loss dielectric*
- *Double shielded, 63% coverage braid*
- *Available with PVC or PE jacket*
- *UV resistant*
- *RoHS compliant*
- *Swept to 3 GHz*

**Increase efficiency,
Improve installations!**



ORDERING INFORMATION

- | | |
|--------|--|
| 527161 | FRG-60 PVC White Coaxial Cable 6.8 mm, Reel 100 meters |
| 527163 | FRG-60 PE Black Coaxial Cable 6.8 mm, Reel 100 meters |

CABLE MANUFACTURING SPECIFICATION

GENERAL SPECIFICATIONS

| | | |
|-------------|-------------------|------------------|
| Cable Type | FRG-60 PVC | FRG-60 PE |
| Application | Indoor | Outdoor |
| Packing | 100m Reel | 100m Reel |
| Order No. | 527161 | 527163 |

CONSTRUCTION MATERIALS

| | | |
|-----------------|-------------------------------|-------------------------------|
| Inner Conductor | Copper Clad Steel, Ø 1.13 mm | Copper Clad Steel, Ø 1.13 mm |
| Dielectric | Skin-foam PE, Ø 4.80 mm | Skin-foam PE, Ø 4.80 mm |
| Outer Conductor | | |
| 1st Shield | AL/PET/AL tape, ≥2 mm overlap | AL/PET/AL tape, ≥2 mm overlap |
| 2nd Shield | 96 AL wire braiding (63%) | 96 AL wire braiding (63%) |
| Outer Sheath | PVC White - UV, Ø 6.80 mm | PE Black - UV, Ø 6.80 mm |

ELECTRICAL SPECIFICATIONS

| | | |
|------------------------------|--------------|--------------|
| Operating Frequency Band | 5-3000 MHz | 5-3000 MHz |
| Characteristic Impedance | 75 (±3) Ohm | 75 (±3) Ohm |
| Capacitance | 52 (±2) pF/m | 52 (±2) pF/m |
| Velocity Ratio | 85 % | 85 % |
| Sheath Insulation Voltage | 2500 V | 2500 V |
| Screening Attenuation | | |
| 30 - 1000 MHz | >75 dB | >75 dB |
| 1000 - 2000 MHz | >65 dB | >65 dB |
| 2000 - 3000 MHz | >55 dB | >55 dB |
| Transfer Impedance | | |
| 5 - 30 MHz | ≤15 mOhm/m | ≤15 mOhm/m |
| Screening Class | | |
| According to EN 50117 | Class B | Class B |
| DC Resistance (at 20°C) | | |
| Inner conductor | 81 Ohm/km | 81 Ohm/km |
| Outer conductor | 37 Ohm/km | 37 Ohm/km |
| Structural Return Loss (SRL) | | |
| 5 - 470 MHz | >23 dB | >23 dB |
| 470 - 1000 MHz | >20 dB | >20 dB |
| 1000 - 3000 MHz | >16 dB | >16 dB |

MECHANICAL SPECIFICATIONS

| | | |
|------------------------|--------------|--------------|
| Minimum Bending Radius | 35/70 mm | 35/70 mm |
| Temperature Rating | -20 to +70°C | -20 to +70°C |

SPECIFICATION CONFORMITY

| | | |
|-----------------------|----------|----------|
| According to EN 50117 | part 2-4 | part 2-5 |
|-----------------------|----------|----------|

ATTENUATION (at 20°C)

| | | | | | | | | | | | |
|-------------------------|-----|-----|-----|-----|------|------|------|------|------|------|------|
| Frequency [MHz] | 5 | 50 | 100 | 200 | 400 | 800 | 950 | 1350 | 1750 | 2150 | 3000 |
| Nominal Value [dB/100m] | 1.3 | 3.7 | 5.6 | 8.1 | 11.9 | 17.0 | 18.7 | 22.8 | 26.3 | 29.5 | 35.0 |