

HRG316-10-B-2

10kV_{DC} / 1kV_{AC} - 0.18mm² - FEP DIELECTRIC

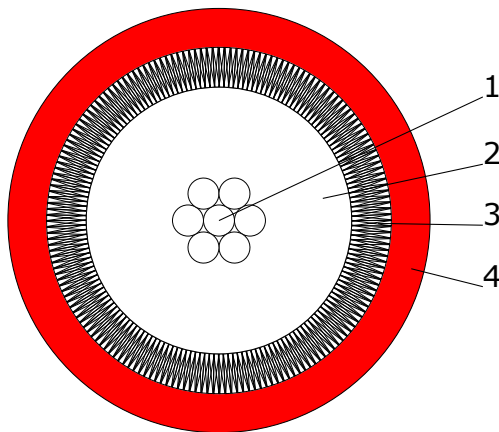
PRODUCT DESCRIPTION

10kV_{DC} coaxial high voltage cable suitable to replace standard 50Ω RG316 type coaxial cable in high voltage applications. Very flexible due to a small diameter of 2.45mm only and thus ideal for applications in limited space. The dimensions are identical to standard RG316.

It is compatible with our HC55AP-316 SHV type coaxial connector.

Solid silver plated copper conductor and a braid of silver plated copper wires. Using FEP dielectric and an FEP jacket, the cable can be operated at temperatures of -65 to +200°C. It shows excellent chemical and abrasion resistance.

CONSTRUCTION



1. Conductor	Cu/Ag (7xAWG33 s.p.c.)	0.18mm ² Ø 0.54mm
2. Dielectric	FEP	Ø 1.54mm ± 0.05mm
3. Braid	Cu/Ag (0.10mm s.p.c.)	Ø 2.0mm
4. Jacket	FEP	Ø 2.45mm ± 0.15mm

TECHNICAL DATA

Rated Voltage	10kV _{DC} / 1kV _{AC}
Test Voltage	20kV _{DC} / 60s (conductor / braid) 15kV _{AC} (Spark Test, core) 5kV _{AC} (Spark Test, jacket) 20kV _{DC} / 24h (Type Test)
Conductor Resistance @ 20°C	≤ 110Ω/km
Insulation Resistance @ 20°C	> 5000MΩ*km
Impedance	50Ω ±3Ω
Capacitance	typ. 94pF/m; max. 105pF/m
min. Bend Radius	25mm (moving), 10mm (fixed)
Operating Temperature	-65°C - +200°C
Oil Resistance	Yes
Flame Retardance	Yes
Low Smoke	Yes
Halogen-free	No
RoHS Compliant	Yes
Weight	ca. 0.014kg/m
Color	red
Status	P (Preferred)

This cable can be terminated with our SHV connector HC55AP-316.