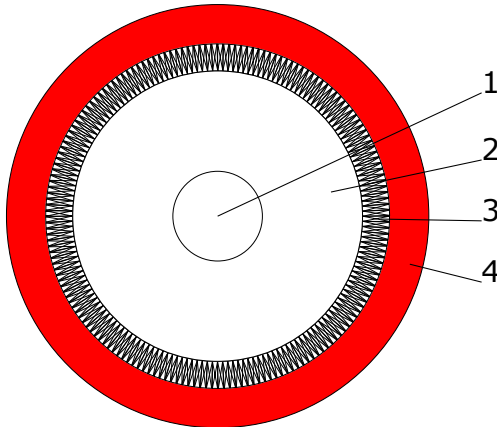


40kV_{DC} / 1.4kV_{AC} - 0.69mm² - FEP DIELECTRIC HIGH VOLTAGE CABLE AWM STYLE 3239 - INTERNAL USE

PRODUCT DESCRIPTION

40kV_{DC} coaxial high voltage cable with a solid silver plated copper conductor and a braid of silver plated copper wires. Suitable to replace standard 50Ω RG58 type coaxial cable in high voltage applications. Core dimensions similar to RG58. It is compatible with SHV, MHV, HC51, HC52 and Kings® type coaxial connectors. UL recognized AWM Style 3239 (40kV, 150°C, horizontal flame and VW-1 flame). RoHS/REACH compliant. Using FEP dielectric and an FEP jacket, the cable can be operated at temperatures of -65 to +200°C. The UL recognition covers operating temperatures up to 150°C. It shows excellent chemical and abrasion resistance properties.

CONSTRUCTION



1. Conductor	Cu/Ag (1x0.94mm s.p.c.)	0.69mm ² Ø 0.94mm
2. Dielectric	FEP	Ø 2.95mm
3. Braid	Cu/Ag (0.127mm s.p.c.)	Ø 3.5mm
4. Jacket	FEP	Ø 4.30mm ± 0.15mm

TECHNICAL DATA

Rated Voltage	40kV _{DC} / 1.4kV _{AC}
Test Voltage	81kV _{DC} / 60s (conductor / braid) 15kV _{AC} (Spark Test, core) 5kV _{AC} (Spark Test, jacket) 64kV _{DC} / 24h (Type Test)
Conductor Resistance @ 20°C	≤ 26Ω/km
Insulation Resistance @ 20°C	> 5000MΩ*km
Impedance	50Ω ±3Ω
Capacitance	typ. 94pF/m; max. 105pF/m
min. Bend Radius	45mm (moving), 20mm (fixed)
Operating Temperature	-65°C - +200°C; UL: +150°C
Oil Resistance	Yes
Flame Retardance	Yes
Low Smoke	Yes
Halogen-free	No
RoHS Compliant	Yes
Weight	ca. 0.040kg/m
Color	red
Status	P (Preferred)

This cable can be terminated with SHV, MHV, our HC51 series HC51P-58, HC51RB-58 and HC52P-58 connectors, and our HS/HB series high voltage connectors.

All values and dimensions without given tolerances are nominal.

Disclaimer

The information given in this data sheet is technical data, not assured product characteristics. It has been carefully checked and is believed to be accurate; however, no responsibility is assumed for inaccuracies. The user has to ensure by adequate tests that the product is suitable for his application regarding safety and technical aspects. hivolt.de GmbH & Co. KG does not assume any liability arising out of the application or use of any product described.

Safety Advice

Design, installation and inspection of machinery and devices carrying high voltage require accordingly trained and qualified personnel. Appropriate safety rules and directives must be complied with. Improper handling of high voltage can mean severe injuries or death and may cause serious collateral damage!