

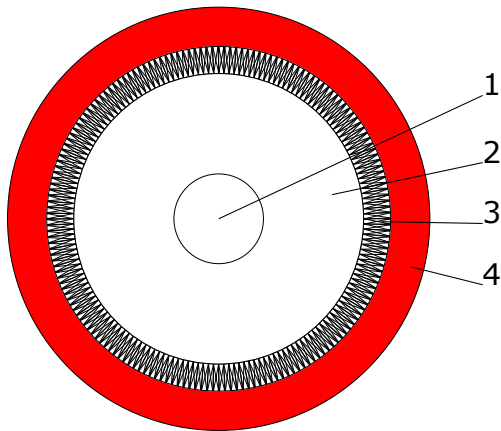
## HRG303-40-U-A-2

40kV<sub>DC</sub> / 1.4kV<sub>AC</sub> - 0.69mm<sup>2</sup> - FEP DIELECTRIC  
 AWM STYLE 3239 - INTERNAL USE

### PRODUCT DESCRIPTION

40kV<sub>DC</sub> 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 - internal use). 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



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

### TECHNICAL DATA

<b>Rated Voltage</b>	40kV <sub>DC</sub> / 1.4kV <sub>AC</sub>
<b>Test Voltage</b>	81kV <sub>DC</sub> / 60s (conductor / braid) 15kV <sub>AC</sub> (Spark Test, core) 5kV <sub>AC</sub> (Spark Test, jacket) 64kV <sub>DC</sub> / 24h (Type Test)
<b>Conductor Resistance @ 20°C</b>	≤ 26Ω/km
<b>Insulation Resistance @ 20°C</b>	> 5000MΩ*km
<b>Impedance</b>	50Ω ±3Ω
<b>Capacitance</b>	typ. 94pF/m; max. 105pF/m
<b>min. Bend Radius</b>	45mm (moving), 20mm (fixed)
<b>Operating Temperature</b>	-65°C - +200°C; UL: +150°C
<b>Oil Resistance</b>	Yes
<b>Flame Retardance</b>	according to UL758/1581/2556, Horizontal and VW-1 Flame Test
<b>Low Smoke</b>	Yes
<b>Halogen-free</b>	No
<b>RoHS Compliant</b>	Yes
<b>Weight</b>	ca. 0.040kg/m
<b>Color</b>	red
<b>Status</b>	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.