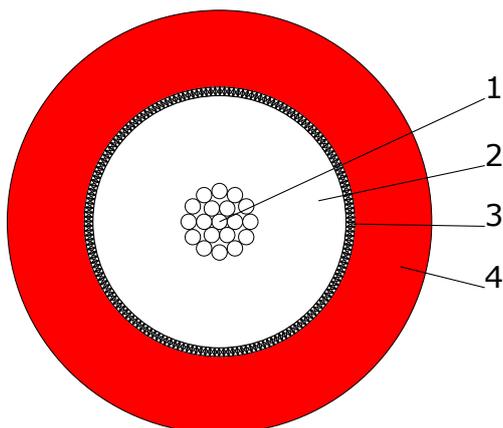


## 20kV<sub>DC</sub> - 0.50mm<sup>2</sup> - PE-X DIELECTRIC COAXIAL HIGH VOLTAGE CABLE

### PRODUCT DESCRIPTION

20kV<sub>DC</sub> coaxial high voltage cable suitable to replace standard 50Ω RG58 coaxial cable in high voltage applications. It is fully compatible with SHV, MHV, HC51 and Kings® type coaxial connectors. Halogen free, flame retardant, low smoke (LSZH). RoHS / REACH compliant. The jacket is resistant against oil, hydrolysis and microbes. The cable is available on cardboard reels (150m) and wooden reels (500m).

### CONSTRUCTION



<b>1. Conductor</b>	Cu/Sn (19xAWG33 t.p.c.)	0.50mm <sup>2</sup> Ø 0.95mm
<b>2. Dielectric</b>	PE-X	Ø 2.95mm ± 0.05mm
<b>3. Braid</b>	Cu/Sn (0.13mm t.p.c.) 90% Coverage	Ø 3.35mm ± 0.1mm
<b>4. Jacket</b>	TPE-U (PUR)	Ø 4.95mm ± 0.2mm

### TECHNICAL DATA

<b>Rated Voltage</b>	20kV <sub>DC</sub>
<b>Test Voltage</b>	41kV <sub>DC</sub> / 60s (conductor / braid) 15kV <sub>AC</sub> (Spark Test, core)
<b>Conductor Resistance @ 20°C</b>	≤ 40Ω/km
<b>Impedance</b>	typ. 50Ω
<b>Capacitance</b>	typ. 102pF/m
<b>min. Bend Radius</b>	74mm (moving), 37mm (fixed)
<b>Operating Temperature</b>	-20°C - +105°C
<b>Flame Retardance</b>	according to DIN EN 60332-2-1 (60s) and DIN EN 60332-2-2 (20s)
<b>Halogen-free</b>	Yes (LSZH)
<b>Weight</b>	ca. 0.036kg/m
<b>Cu-Weight</b>	ca. 0.014kg/m
<b>Color</b>	red
<b>RoHS Compliant</b>	Yes
<b>Status</b>	P [Preferred]

Intended for fixed installation; suitable for flexible wiring to a limited extent.

This cable is compatible with HC51 Series high voltage connectors HC51P-58 and HC51RB-58.

HRG58-20-2 can also be supplied with UL Style 3871 approval as HRG58-20-XV-U-2.

#### 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!