

## HRG58-20-XV-U-2

20kV<sub>DC</sub> - 0.50mm<sup>2</sup> - PE-X DIELECTRIC  
 AWM STYLE 3871

### PRODUCT DESCRIPTION

20kV<sub>DC</sub> coaxial high voltage cable suitable to replace standard 50Ω coaxial cable in high voltage applications. The dimensions correspond to standard RG58-C/U.

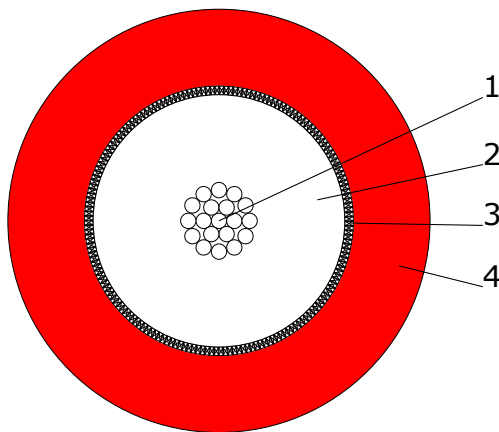
It is fully compatible with SHV, MHV, HC51 and Kings® type coaxial connectors.

UL recognized AWM style 3871. Flame retardant, RoHS / REACH compliant.

The jacket is resistant against oil and provides good chemical resistance properties.

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 Wall Thickness (average) Wall Thickness (minimum)	Ø 2.95mm ± 0.1mm ≥ 0.38mm ≥ 0.33mm
<b>3. Braid</b>	Cu/Sn (0.13mm t.p.c.) 90% Coverage	Ø 3.35mm ± 0.1mm
<b>4. Jacket</b>	PVC Wall Thickness (average) Wall Thickness (minimum)	Ø 5.1mm ± 0.1mm ≥ 0.79mm ≥ 0.61mm

### 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. 51Ω
<b>Capacitance</b>	typ. 102pF/m
<b>min. Bend Radius</b>	77mm (moving), 38mm (fixed)
<b>Operating Temperature</b>	-20°C - +105°C
<b>Oil Resistance</b>	Jacket according to DIN EN 60811-404 (168h / 80°C)
<b>Flame Retardance</b>	according to DIN EN 60332-2-2 (20s) Horizontal Flame Test UL758/1581/2556
<b>Halogen-free</b>	No
<b>RoHS Compliant</b>	Yes
<b>Weight</b>	ca. 0.040kg/m
<b>Cu-Weight</b>	ca. 0.014kg/m
<b>Color</b>	red
<b>Status</b>	P (Preferred)

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

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

HRG58-20-XV-U-2 can also be supplied without UL approval as HRG58-20-2.

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