

## HRG58-20-2

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

### PRODUCT DESCRIPTION

20kV<sub>DC</sub> coaxial high voltage cable suitable to replace standard 50Ω RG58 coaxial cable in high voltage applications.

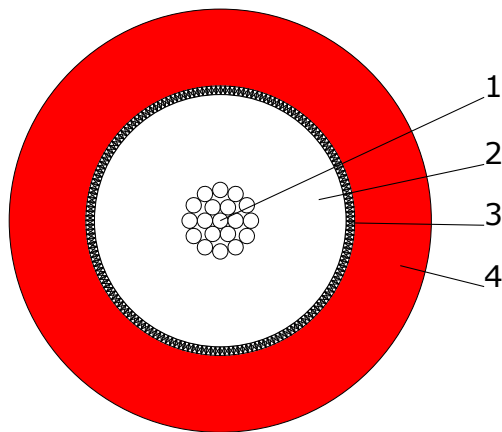
It is fully compatible with SHV, MHV and Kings® type coaxial connectors.

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 (1000m).

### CONSTRUCTION



|                      |                                    |                                 |
|----------------------|------------------------------------|---------------------------------|
| <b>1. Conductor</b>  | Cu/Sn (19xAWG33 t.p.c.)            | 0.50mm <sup>2</sup><br>Ø 0.95mm |
| <b>2. Dielectric</b> | PE-X                               | Ø 2.95mm<br>± 0.05mm            |
| <b>3. Braid</b>      | Cu/Sn (0.10mm t.p.c.) 85% Coverage | Ø 3.35mm<br>± 0.1mm             |
| <b>4. Jacket</b>     | TPE-U (PUR)                        | Ø 4.95mm<br>± 0.15mm            |

### TECHNICAL DATA

|                                    |   |
|------------------------------------|---|
| <b>Rated Voltage</b>               | 20kV <sub>DC</sub>  |
| <b>Test Voltage</b>                | 41kV <sub>DC</sub> / 60s (conductor / braid)<br>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>RoHS Compliant</b>              | Yes   |
| <b>Weight</b>                      | ca. 0.032kg/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.

