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# DATA SHEET

## RG-58/U MIL C17



[www.ssb-electronic.com](http://www.ssb-electronic.com)

### Description

RG-58/U is a flexible, universal 50  $\Omega$  coaxial cable with an outer diameter of 4.95 mm for a wide range of high-frequency applications. RG-58/U is single shielded and has a black PVC outer jacket. Manufacturing according to the American MIL-C-17 standard ensures high robustness, constant performance and a long service life of the cable.



### Applications

RG-58/U is suitable for antenna, cellular and communication systems. RG-58/U can also be used in radio and reception technology, in amateur radio and CB radio, in WLAN systems, in measurement and testing technology as well as in electronics.

### Technical data

|                               |   |
|-------------------------------|---|
| Inner conductor               | Stranded tinned copper  |
| Inner conductor $\varnothing$ | 19 x 0,18 mm  |
| Insulation                    | Polyethylene  |
| Insulation $\varnothing$      | 2,95 mm   |
| Shield                        | Tinned copper wires braid   |
| Physical coverage             | > 94 %  |
| Outer sheath                  | PVC black / UV resistant  |
| Outer diameter                | 4,95 $\pm$ 0,15 mm  |
| Temperature range             | -40 to +80°C Fixed installation<br>-15 to +80°C Moved   |
| Standards                     | Manufactured according to MIL-C-17/28C<br>Flame retardant according to DIN EN 60332-1-2<br>RoHS compliant |

### Electrical characteristics

|  |  |
|--|--|
| Impedance                                | 50 $\pm$ 2 $\Omega$  |
| Max. operating frequency                 | 1 GHz  |
| Capacitance                              | < 100 pF/m   |
| Velocity factor                          | 0,66   |
| Electrical resistance of inner conductor | < 41 $\Omega$ /km  |
| Spark Tester voltage                     | 5000 V r.m.s.  |
| Typ. attenuation                         | 50 MHz: < 13,1 dB/100 m<br>100 MHz: < 21,4 dB/100 m<br>400 MHz: < 55,8 dB/100 m<br>1000 MHz: < 92 dB/100 m |