

## RG versions



### Application

Coaxial cables allow a distortionless transmission of signals with a high bandwidth. Low capacitance.

### Special Feature

Coaxial cables are significantly insensitive to external interferences due to the cable make-up.

## Technical Data

Minimum bending radius for static: 6 x cable diameter

Temperature range:  
static: PE outer sheath:  
-40 °C up to +80 °C  
static: PVC outer sheath:  
-40 °C up to +80 °C  
static: PTFE:  
-55 °C up to +250 °C

Specification similar to MIL-C-17F

Dielectric constant:  
- Polyethylene (PE) 2.3  
- Polyethylene (hollow space PE-ho) 1.5  
- Polytetrafluoroethylene (PTFE) 2.1

| Part number | Type              | Characteristic impedance Ohm | Capacitance pF/m | Attenuation approx. dB/100m at 200 MHz / 400 MHz | Velocity of propagation % | Nom. voltage 50 Hz eff. kV | Test voltage kV |
|-------------|-------------------|------------------------------|------------------|--|---------------------------|----------------------------|-----------------|
| 2170 000    | RG-58 C/U         | 50 +/- 2                     | 101              | 24 / 33  | 66                        | 2,0                        | 5               |
| 2170 001    | RG-174 A/U        | 50 +/- 2                     | 101              | 40 / 59  | 66                        | 1,5                        | 2               |
| 2170 002    | RG-178 B/U        | 50 +/- 2                     | 95               | 63 / 93  | 70                        | 0,7                        | 2               |
| 2170 003    | RG-188 A/U        | 50 +/- 2                     | 95               | 47 / 56  | 70                        | 1,5                        | 2               |
| 2170 005    | RG-213 /U         | 50 +/- 2                     | 101              | 10 / 15  | 66                        | 5,0                        | 10              |
| 2170 006    | RG-214 /U         | 50 +/- 2                     | 101              | 9 / 14   | 66                        | 5,0                        | 10              |
| 2170 007    | RG-223 /U         | 50 +/- 2                     | 101              | 23 / 34  | 66                        | 2,0                        | 3               |
| 2170 016    | RG-6 A/U          | 75 +/- 3                     | 67               | 14 / 20  | 66                        | 2,7                        | 5               |
| 2170 009    | RG-11 A/U         | 75 +/- 3                     | 67               | 11 / 16  | 66                        | 5,0                        | 10              |
| 2170 011    | RG-11 A/U outdoor | 75 +/- 3                     | 67               | 11 / 16  | 66                        | 5,0                        | 10              |
| 2170 012    | RG-59 B/U         | 75 +/- 3                     | 67               | 16,5 / 23  | 66                        | 1,7                        | 7               |
| 2170 010    | RG-187 A/U        | 75 +/- 3                     | 65               | 47 / 56  | 70                        | 1,5                        | 2               |
| 2170 008    | RG-62 A/U         | 93 +/- 5                     | 43               | 15 / 19  | 75                        | 0,8                        | 2               |
| 2170 004    | RG-71 B/U         | 93 +/- 5                     | 43               | 13 / 18  | 75                        | 0,8                        | 2               |

### Cable design

| Type              | Inner conductor | Inner conductor | Dielectric | Dielectric    | Outer conductor | Outer sheath | Outer sheath  | Copper weight | Weight          |
|-------------------|-----------------|-----------------|------------|---------------|-----------------|--------------|---------------|---------------|-----------------|
|                   | Material        | Diameter (mm)   | Material   | Diameter (mm) | Material        | Material     | Diameter (mm) | kg/km         | kg/km (approx.) |
| RG-58 C/U         | CuLivz          | 0,90            | PE         | 2,95          | Cuvz            | PVC          | 4,95          | 19,1          | 38,0            |
| RG-174 A/U        | StCuLibl        | 0,48            | PE         | 1,52          | Cuvz            | PVC          | 2,80          | 5,4           | 12,0            |
| RG-178 B/U        | StCuLivs        | 0,30            | PTFE       | 0,86          | Cuvs            | FEP          | 1,91          | 4,4           | 9,0             |
| RG-188 A/U        | StCuLivs        | 0,51            | PTFE       | 1,52          | Cuvs            | PTFE         | 2,76          | 8,3           | 17,5            |
| RG-213 /U         | CuLibl          | 2,25            | PE         | 7,25          | Cubl            | PVC          | 10,30         | 75,8          | 157,0           |
| RG-214 /U         | CuLivs          | 2,25            | PE         | 7,25          | CuvsCuvz        | PVC          | 10,80         | 117,8         | 207,0           |
| RG-223 /U         | CuMvs           | 0,89            | PE         | 2,95          | CuvsCuvz        | PVC          | 5,50          | 38,5          | 60,0            |
| RG-6 A/U          | StCuMbl         | 0,72            | PE         | 4,70          | Cubl            | PVC          | 8,40          | 72,0          | 120,0           |
| RG-11 A/U         | CuLivz          | 1,20            | PE         | 7,30          | Cubl            | PVC          | 10,30         | 55,5          | 140,0           |
| RG-11 A/U outdoor | CuLivz          | 1,20            | PE         | 7,30          | Cubl            | PVCPVC       | 12,10         | 55,5          | 170,0           |
| RG-59 B/U         | StCuMbl         | 0,60            | PE         | 3,70          | Cubl            | PVC          | 6,15          | 25,0          | 57,0            |
| RG-187 A/U        | StCuLivs        | 0,31            | PTFE       | 1,52          | Cuvs            | PTFE         | 2,80          | 7,3           | 17,0            |
| RG-62 A/U         | StCuMbl         | 0,65            | PE-ho      | 3,70          | Cubl            | PVC          | 6,15          | 24,0          | 52,0            |
| RG-71 B/U         | StCuMbl         | 0,65            | PE-ho      | 3,70          | CublCuvz        | PE           | 6,50          | 46,0          | 62,0            |

### Legend

Cu= copper wire  
StCu= copper plated steel wire  
Li= stranded conductor  
M= solid conductor  
vz= tinned  
bl= bare  
vs= silver plated  
PE-ho= hollow space insulation  
All diameters are in mm

Standard lengths without surplus for cutting: 100m, 1000m