

# Recommended Coaxial Cables

## Dimensions and characteristics

| Supplier specification / Part Number |          | Imp.<br>(Ω) | Construction and dimensions |        |      |            |       |        |      |          |       | Weight<br>kg /<br>100m |
|--------------------------------------|----------|-------------|-----------------------------|--------|------|------------|-------|--------|------|----------|-------|------------------------|
|                                      |          |             | Conductor                   |        |      | Dielectric |       | Screen |      | Sheath   |       |                        |
|                                      |          |             | Constr.                     | Mat.   | Ø    | Mat.       | Ø     | Mat.   | Ø    | Mat.     | Ø     |                        |
| MIL-C-17 E                           | IEC 96-2 |             |                             |        |      |            |       |        |      |          |       |                        |
| RG.6A/U                              |          | 75±3 Ω      | solid                       | CuSt   | 0.73 | PE         | 4.70  | AgCu   | 6.2  | PVC*     | 8.45  | 10.70                  |
| RG.11A/U                             | 75-7-1   | 75±3 Ω      | 7×0.40                      | CuSn   | 1.20 | PE         | 7.25  | Cu     | 8.2  | PVC*     | 10.30 | 14.00                  |
| RG.12A/U                             |          | 75±3 Ω      | 7×0.40                      | CuSn   | 1.20 | PE         | 7.25  | Cu     | 8.2  | FeZc     | 11.80 | 25.60                  |
| RG.34B/U                             |          | 75±3 Ω      | 7×0.62                      | Cu     | 1.86 | PE         | 11.50 | Cu     | 12.4 | PVC*     | 16.00 | 28.40                  |
| RG.58C/U                             | 50-3-1   | 50±2 Ω      | 19×0.18                     | CuSn   | 0.90 | PE         | 2.95  | CuSn   | 3.6  | PVC*     | 5.00  | 3.80                   |
| RG.59B/U                             |          | 75±3 Ω      | solid                       | CuSt   | 0.60 | PE         | 3.70  | Cu     | 4.5  | PVC*     | 6.10  | 5.00                   |
| RG.115A/U                            |          | 50±2 Ω      | 7×0.75                      | CuAg   | 2.25 | PTFE       | 6.50  | Ag+Ag  | 8.0  | PTFE+GSi | 10.50 | 22.60                  |
| RG.122/U                             |          | 50±2 Ω      | 27×0.13                     | CuSn   | 0.80 | PE         | 2.50  | CuSn   | 3.2  | PVC*     | 4.10  | 3.20                   |
| RG.142B/U                            |          | 50±2 Ω      | solid                       | CuStAg | 0.95 | PTFE       | 2.95  | Ag+Ag  | 4.3  | FEP      | 5.00  | 6.20                   |
| RG.144/U                             | 75-7-11  | 75±3 Ω      | 7×0.45                      | CuStAg | 1.35 | PTFE       | 7.25  | CuAg   | 8.0  | PTFE+GSi | 10.40 | 20.00                  |
| RG.165/U                             | 50-7-8   | 50±2 Ω      | 7×0.82                      | CuAg   | 2.46 | PTFE       | 7.25  | CuAg   | 8.0  | PTFE+GSi | 10.40 | 27.00                  |
| RG.174A/U                            | 50-2-1   | 50±2 Ω      | 7×0.16                      | CuSt   | 0.48 | PE         | 1.50  | CuSn   | 2.0  | PVC*     | 2.80  | 1.10                   |
| RG.178B/U                            | 50-1-1   | 50±2 Ω      | 7×0.10                      | CuStAg | 0.30 | PTFE       | 0.84  | CuAg   | 1.3  | FEP      | 1.80  | 0.85                   |
| RG.179B/U                            | 75-2-1   | 75±3 Ω      | 7×0.10                      | CuStAg | 0.30 | PTFE       | 1.50  | CuAg   | 2.0  | FEP      | 2.50  | 1.50                   |
| RG.180B/U                            |          | 95±5 Ω      | 7×0.10                      | CuStAg | 0.30 | PTFE       | 2.60  | CuAg   | 3.1  | FEP      | 3.60  | 3.20                   |
| RG.187A/U                            | 75-2-2   | 75±3 Ω      | 7×0.10                      | CuStAg | 0.30 | PTFE       | 1.50  | CuAg   | 2.0  | PTFE     | 2.60  | 1.60                   |
| RG.188A/U                            | 50-2-3   | 50±2 Ω      | 7×0.18                      | CuStAg | 0.54 | PTFE       | 1.50  | CuAg   | 2.0  | PTFE     | 2.60  | 1.60                   |
| RG.196A/U                            | 50-1-2   | 50±2 Ω      | 7×0.10                      | CuStAg | 0.30 | PTFE       | 0.84  | CuAg   | 1.3  | PTFE     | 2.10  | 1.10                   |
| RG.212/U                             |          | 50±2 Ω      | solid                       | CuAg   | 1.35 | PE         | 4.70  | Ag+Ag  | 6.2  | PVC*     | 8.50  | 11.80                  |
| RG.213/U                             | 50-7-2   | 50±2 Ω      | 7×0.75                      | Cu     | 2.25 | PE         | 7.25  | Cu     | 8.2  | PVC*     | 10.30 | 15.50                  |
| RG.214/U                             |          | 50±2 Ω      | 7×0.75                      | CuAg   | 2.25 | PE         | 7.25  | Ag+Ag  | 8.8  | PVC*     | 10.80 | 18.70                  |
| RG.216/U                             |          | 75±3 Ω      | 7×0.40                      | CuSn   | 1.20 | PE         | 7.25  | Cu+Cu  | 8.8  | PVC*     | 10.80 | 17.00                  |
| RG.217/U                             |          | 50±2 Ω      | solid                       | Cu     | 2.70 | PE         | 9.40  | Cu+Cu  | 11.2 | PVC*     | 13.80 | 31.00                  |
| RG.223/U                             | 50-3-5   | 50±2 Ω      | solid                       | CuAg   | 0.89 | PE         | 2.95  | Ag+Ag  | 4.3  | PVC*     | 5.40  | 5.50                   |
| RG.225/U                             |          | 50±2 Ω      | 7×0.82                      | CuAg   | 2.46 | PTFE       | 7.25  | Ag+Ag  | 8.8  | PTFE+GSi | 10.90 | 28.00                  |
| RG.226/U                             |          | 50±2 Ω      | 19×0.64                     | CuAg   | 3.18 | PTFE       | 9.40  | Cu+Cu  | 10.9 | PTFE+GSi | 12.70 | 37.00                  |
| RG.280/U                             |          | 50±2 Ω      | solid                       | Cu     | 2.90 | PTFE       | 8.30  | Ag+Ag  | 9.8  | PVC*     | 12.20 | 29.40                  |
| RG.302/U                             | 75-4-6   | 75±3 Ω      | solid                       | CuStAg | 0.64 | PTFE       | 3.70  | CuAg   | 4.4  | FEP      | 5.10  | 6.20                   |
| RG.303/U                             |          | 50±2 Ω      | solid                       | CuStAg | 0.95 | PTFE       | 2.95  | CuAg   | 3.6  | FEP      | 4.30  | 5.10                   |
| RG.304/U                             |          | 50±2 Ω      | solid                       | CuStAg | 1.50 | PTFE       | 4.70  | Ag+Ag  | 6.2  | FEP      | 7.10  | 12.60                  |
| RG.316/U                             | 50-2-2   | 50±2 Ω      | 7×0.18                      | CuStAg | 0.54 | PTFE       | 1.50  | CuAg   | 2.0  | FEP      | 2.50  | 1.60                   |
| RG.393/U                             |          | 50±2 Ω      | 7×0.80                      | CuAg   | 2.40 | PTFE       | 7.25  | Ag+Ag  | 8.8  | FEP      | 9.90  | 27.00                  |
| RG.400/U                             |          | 50±2 Ω      | 19×0.20                     | CuAg   | 1.00 | PTFE       | 2.95  | Ag+Ag  | 4.3  | FEP      | 5.00  | 6.30                   |
| Dätwyler HF-2114                     |          | 50±2 Ω      | 7×0.16                      | Cu     | 0.48 | PE         | 1.30  | Cu     | 1.9  | PVC      | 2.70  | 1.16                   |
| Dätwyler HF-5408/1                   |          | 75±3 Ω      |                             |        | 0.60 |            | 3.80  |        |      |          | 5.60  |                        |
| LEMO CCE.99.281.505                  | 50-2-1   | 50±2 Ω      | 7×0.18                      | CuSt   | 0.54 | PE         | 1.50  | Cu     | 2.2  | PVC*     | 2.80  | 1.27                   |
| LEMO CCH.99.281.505                  | 50-2-1   | 50±2 Ω      | 7×0.18                      | CuSt   | 0.54 | PE         | 1.50  | Cu     | 2.2  | PoF      | 2.80  | 1.30                   |
| Philips 0722 102 11001               |          | 75±3 Ω      | solid                       | Cu     | 0.32 | PE         | 2.04  | Cu     | 3.0  | PVC      | 3.70  | 2.30                   |
| Philips 0722 102 29001               |          | 75±3 Ω      | solid                       | Cu     | 0.32 | PE         | 2.04  | AgCu   | 3.0  | PVC      | 3.70  | 2.00                   |
| Siemens 2YCY 0.4/25                  |          | 75±2 Ω      | solid                       | CuSt   | 0.40 | PE         | 2.50  | Cu     | 2.8  | PVC      | 3.80  | 2.20                   |
| Siemens 2YCCY 0.4/25                 |          | 75±2 Ω      | solid                       | CuSt   | 0.40 | PE         | 2.50  | Cu     | 3.7  | PVC      | 4.50  | 2.20                   |

### Abbreviations

|       |                                     |        |                                 |          |                                                                                                         |
|-------|-------------------------------------|--------|---------------------------------|----------|---------------------------------------------------------------------------------------------------------|
| Ag+Ag | Double screen, silver-plated copper | CuSn   | Tinned copper                   | PoF      | Polyolefine                                                                                             |
| AgCu  | Double screen                       | CuSt   | Copper-plated steel             | PTFE     | Wrapped or extruded Polytetrafluorethylene                                                              |
| CR    | Polychloroprene (Neoprene)          | CuStAg | Silvered copper-plated steel    | PTFE+GSI | Wrapped or extruded Polytetrafluorethylene filled with fiberglass and impregnated with silicone varnish |
| CSM   | Hypalon                             | FEP    | Extruded Polytetrafluorethylene | PVC      | Polyvinylchloride                                                                                       |
| Cu    | Bare copper                         | FeZc   | Galvanized iron armour          | PVC*     | Polyvinylchloride (Qual.IIa MIL-C-17)                                                                   |
| CuAg  | Silver-plated copper                | PE     | Polyethylene                    |          |                                                                                                         |

Note: All dimensions are in millimeters