



industrial data rf cable series

RG-62-U / RG-62B-U

93 Ohm Air-Spaced Semi-Solid PE Coaxial Data &

MIL-DTL-17 · 93 Ω air-spaced semi-solid PE low-capacitance coax · 44.3 pF/m · 84 % VoP

MIL-DTL-17/30 · 93 $\Omega \pm 5 \Omega$

44.3 pF/m · 84 % VoP Air-Spaced PE

RG-62A/U (Solid) · RG-62B/U (Stranded)

Application

93 Ω low-capacitance (44.3 pF/m) air-spaced semi-solid PE coaxial cable (RG-62/U, RG-62A/U solid 22 AWG CCS; RG-62B/U stranded 24 AWG CCS) per MIL-DTL-17 (M17/30-RG62) with 84 % VoP, bare copper braid, and PVC jacket for ARCNET and sensors.

Typical uses: ARCNET Industrial Automation Token Buses, Nuclear Physics NIM / CAMAC Pulse Counters, High-Impedance Piezo & Capacitance Probes, Legacy IBM 3270 Mainframe Coax Terminals, Aerospace & Defense Test Instrumentation

Construction



Cross-section, not to scale

- 1 22 AWG copper-clad steel (CCS) center conductor
- 2 Air-spaced semi-solid polyethylene (PE) dielectric
- 3 Bare copper wire braid shield
- 4 Non-contaminating PVC Type IIA or LSZH jacket

Technical data

Typical values

Characteristic impedance	93 $\Omega \pm 5 \Omega$	Nominal capacitance	44.3 pF/m (13.5 pF/ft) nominal · 47.6 pF/m max.
Velocity of propagation	84 % nominal (3.97 ns/m propagation delay)	Attenuation @ 10 / 100 / 400 MHz	2.8 / 8.9 / 17.4 dB/100m
Conductor / shield DC resistance	135 Ω /km (CCS center) · 8.5 Ω /km (Cu braid)	Working / test voltage	750 V RMS working · 3,000 V RMS dielectric test
Operating temperature range	-40 °C to +80 °C (PVC Type IIA)	Plenum FEP version (89269)	-70 °C to +200 °C (UL CMP)
Max. core temperature	+80 °C continuous PE helix stability	Center / dielectric / braid $\emptyset$	0.64 mm / 3.71 mm / 4.47 mm
Overall jacket diameter	6.15 mm $\pm$ 0.18 mm (0.242 in)	Min. bending radius	62 mm (10 $\times$ OD) fixed installation
Jacket non-contamination	MIL-DTL-17 Type IIA non-migrating PVC	Flame retardancy	UL 1685 CM / CL2 / IEC 60332-1-2
Braid optical coverage	$\geq$ 95 % bare copper wire shield	Standards	MIL-DTL-17/30 (M17/30-RG062, RG-62A/U, RG-62B/U)

Sizes

8 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Impedance / size	Conductor & dielectric	Wall $\approx$ mm	Outer $\emptyset \approx$ mm	Metal kg/km	Weight $\approx$ kg/km	Min. bend R fixed mm
Standard RG-62-U / RG-62B-U configurations 8 sizes							
☐ M17/30-RG062 (RG-62A/U)	93 Ω · 22 AWG Solid CCS	Solid $\emptyset$ 0.64 + Air-PE + Cu	0.84	6.15	25.0	56.0	62
☐ RG-62B/U Stranded Flex	93 Ω · 22 AWG (7 $\times$ 30 CCS)	7 $\times$ 30 CCS + Air-PE + Cu Braid	0.84	6.15	25.5	57.0	50
☐ RG-62/U-BC Bare Copper	93 Ω · 22 AWG Solid Cu	Solid Bare Cu + Air-PE + Cu	0.84	6.15	26.0	57.5	62
☐ RG-62A/U-FEP Plenum	93 Ω · 22 AWG FEP +200°C	Solid CCS + Air-FEP + Braid	0.55	5.35	25.0	49.0	54
☐ RG-62A/U-LSZH	93 Ω · 22 AWG LSZH	Solid CCS + Air-PE + LSZH	0.85	6.20	25.0	59.0	62
☐ RG-62A/U-PE Outdoor	93 Ω · 22 AWG UV-PE	Solid CCS + Air-PE + HDPE	0.88	6.25	25.0	53.0	63
☐ RG-62A/U Double-Shield	93 Ω · 22 AWG Foil+Braid	Solid CCS + Air-PE + Foil/Cu	0.86	6.25	28.0	60.0	63
☐ RG-71B/U Dual-Braid 93 Ω	93 Ω · 22 AWG 2 $\times$ Braid	Solid CCS + Air-PE + 2 $\times$ Cu	0.88	6.35	38.0	72.0	64

– Outer diameters and weights are nominal engineering values for RG-62-U / RG-62B-U subject to standard manufacturing tolerances per MIL-DTL-17/30-RG062 (93 $\Omega \pm 5 \Omega$ Air-Spaced Semi-Solid PE Coax).

RF & electrical data

8 sizes

Configuration	Max. DC R @ 20 °C Ω /km	Char. Z0 Ω	Velocity VoP / L (% or nH/m)	Dielectric test V AC rms
M17/30-RG062 (RG-62A/U) (93 Ω · 22 AWG Solid CCS)	135.00	93.0	84.0	3,000
RG-62B/U Stranded Flex (93 Ω · 22 AWG (7 $\times$ 30 CCS))	142.00	93.0	84.0	3,000
RG-62/U-BC Bare Copper (93 Ω · 22 AWG Solid Cu)	53.00	93.0	84.0	3,000
RG-62A/U-FEP Plenum (93 Ω · 22 AWG FEP +200°C)	135.00	93.0	85.0	3,000
RG-62A/U-LSZH (93 Ω · 22 AWG LSZH)	135.00	93.0	84.0	3,000
RG-62A/U-PE Outdoor (93 Ω · 22 AWG UV-PE)	135.00	93.0	84.0	3,000
RG-62A/U Double-Shield (93 Ω · 22 AWG Foil+Braid)	135.00	93.0	84.0	3,000
RG-71B/U Dual-Braid 93 Ω (93 Ω · 22 AWG 2 $\times$ Braid)	135.00	93.0	84.0	3,000

– Characteristic impedance, propagation velocity, DC resistance at +20 °C, and dielectric withstand voltages verified per MIL-DTL-17/30-RG062 (93 $\Omega \pm 5 \Omega$ Air-Spaced Semi-Solid PE Coax).

Standards and approvals

- ✓ MIL-DTL-17/30-RG062 (93 $\Omega \pm 5 \Omega$ Air-Spaced Semi-Solid PE Coax)
- ✓ CE (2014/35/EU) & RoHS 3 (2015/863/EU) Compliant
- ✓ REACH SVHC Compliance Verified

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

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Email

info@tebaoflex.com

Web

tebaoflex.com/cables/rg-62-u-rg-62b-u-93-ohm-air-spaced-semi-solid-pe-coaxial-data-instrumentation-cable



Typical values for this cable type, based on MIL-DTL-17/30-RG062 (93 $\Omega \pm 5 \Omega$ Air-Spaced Semi-Solid PE Coax). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.