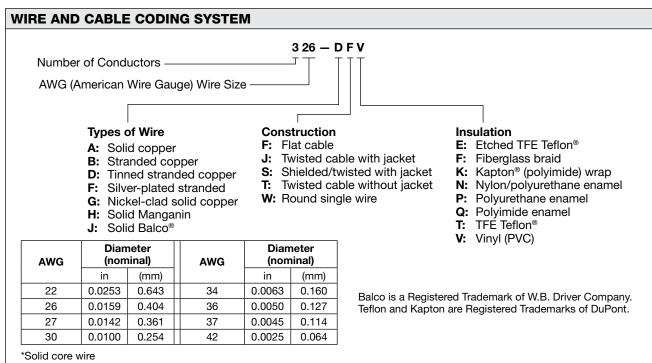
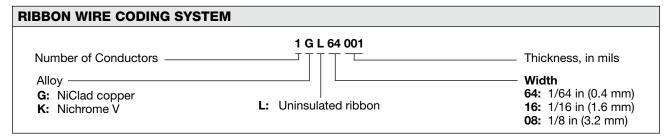


Different strain gage installation conditions and test specifications often necessitate the use of different types or sizes of leadwires. For accurate, reliable strain measurements, it is important to use an appropriate type of leadwire for each installation. Micro-Measurements stocks a wide variety of wires and cables, cataloged in tabular form on the following pages. All wires and cables listed in the tables have been proven in the field to give excellent sensor performance when properly used in the specified environments. Special gage wiring problems may require the use of wires not listed here. In such cases, our Applications Engineering Department can recommend appropriate wire types and can suggest suppliers.







The Wire and Cable Coding System shown above gives the unique designation of each wire type for ordering purposes. The leadwire and cabling selection charts presented on the next three pages are organized according to the number of conductors. All wires and cables are supplied on spools for user convenience. Some styles may not be continuous length.

References:

Application Note: TT-601, Techniques for Bonding Leadwires to Surfaces Experiencing High Centrifugal Forces. Application Note: TT-604, Leadwire Attachment Techniques for Obtaining Maximum Fatigue Life of Strain Gages. Application Note: TT-608, Techniques for Attaching Leadwires to Unbonded Strain Gages.



		SINGLE-C	1	TYPES: SOLID WIRE	
		Туре	Packaging	Description	
		,,,,,	Foot (Meter)*		
		134-AWP 136-AWP	500 ft (150 m) 500 ft (150 m)	Solid copper wire, polyurethane enamel: General-purpose intragage hookup wire. Useful from –100° to +300°F (–75° to +150°C). Enamel coating easily removed by applying heat from soldering iron.	
AWP A	AWN	127-AWN 130-AWN 134-AWN 136-AWN	500 ft (150 m) 500 ft (150 m) 500 ft (150 m) 500 ft (150 m)	Solid copper wire, nylon/polyurethane enamel: Identical in use and specifications to Type AWP above, but with superior abrasion resistance and slightly reduced insulation resistance at elevated temperatures. 134-AWN and 136-AWN are available in four colors; specify: –R (red), –W (white), –B (black), –G (green).	Pb-free RoHS COMPLIANT
		127-AWQ 130-AWQ 134-AWQ	500 ft (150 m) 500 ft (150 m) 500 ft (150 m)	Solid copper wire, polyimide enamel: Intragage hookup wire. Temperature range –452° to +600°F (–269° to +315°C) short term. Enamel is extremely tough and abrasion resistant, with excellent electrical properties; generally removed by mechanical scraping or sanding.	
AWQ (GWF	126-GWF 126-GWF	100 ft (30 m) 1000 ft (300 m)	Solid nickel-clad copper wire, fiberglass braid insulation: Useful from -452° to +900°F (-269° to +480°C). Recommended for use with WK-Series gages when silver solder is used for lead attachment.	
		137-HWN	200 ft (60 m)	Solid manganin wire, nylon/polyurethane enamel: Used for bridge balance and span set in transducer circuits. Nominal resistance: 14 ohms/ft (50 ohms/m). Temperature range: +10° to +125°F (-10° to +50°C).	
HWN		142-JWN	500 ft (150 m)	Solid Balco® wire, nylon/polyurethane enamel: Used for bridge temperature compensation of zero shift or span. Nominal resistance: 19 ohms/ft (65 ohms/m). Temperature coefficient of resistance: +0.25%/°F (+0.45%/°C). Temperature range: +10° to +300°F (-10° to +150°C).	
		SINGLE-C	ONDUCTOR T	TYPES: STRANDED WIRE	
	_		Packaging	Packaging	
		Туре	Foot (Meter)*	Description	Pb-free RoHS COMPLIANT
	WK FWT	126-DWV	100 ft (30 m)	Stranded tinned-copper wire, vinyl insulation: General-purpose leadwire. Useful to +180°F (+80°C). Vinyl insulation becomes brittle at low temperature; not normally used below -60°F (-50°C). Specify red, white, black, or green.	
		126-FWK	25 ft (7.5 m)	Stranded silver-plated copper wire, Kapton® polyimide insulation: High- performance. Recommended for unusually severe service from -452° to over +600°F (-269° to +315°C) short term. Excellent resistance to abrasion, radiation, and outgassing in high vacuum. Treated for bondability.	
DWV FWK		130-FWT	100 ft (30 m)	Stranded silver-plated copper wire, Teflon® insulation: Wide temperature range. Useful from -452° to +500°F (-269° to +260°C). When bonding to Teflon-insulated wire, insulation must be treated with Tetra-Etch® compound (see "Special-Purpose Materials.") Specify red, white, black, or green.	

^{*}Some types may not be continuous length.

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	THREE-CONDUCTOR CABLE				
	Туре	Packaging	Description		
11	Type	Foot (Meter)*	Description		
	322-DJV	500 ft (150 m)	Stranded tinned-copper wire, 3-conductor twisted cable, chrome PVC vinyl jacket, vinyl insulation: Good choice for use with EGP-Series Embedment Strain Gages. Color-coded red/white/black.		
DJV DFV	326-DFV 326-DFV 330-DFV 330-DFV	100 ft (30 m) 1000 ft (300 m) 100 ft (30 m) 1000 ft (300 m)	Stranded tinned-copper wire, 3-conductor flat cable, vinyl insulation: Convenient general-purpose cable. For use from -60° to +180°F (-50° to +80°C). Flat construction requires minimum space. Color-coded red/white/black.		
	326-BSV 326-BSV	100 ft (30 m) 1000 ft (300 m)	Stranded copper wire, 3-conductor twisted cable, PVC insulated, braided shield: For use from -60° to 180°F (-50° to +80°C).	Po-free ROHS COMPLIANT	
	326-DTV 326-DTV	100 ft (30 m) 1000 ft (300 m)	Stranded tinned-copper wire, 3-conductor twisted cable, vinyl insulation: Convenient general-purpose cable for low electrical noise pickup. For use from -60° to +180°F (-50° to +80°C). Color-coded red/white/black.		
BSV DTV DSV	326-DSV 326-DSV	100 ft (30 m) 1000 ft (300 m)	Stranded tinned-copper wire, 3-conductor twisted cable, vinyl insulation, braided shield, vinyl jacket: Special-purpose cable to minimize electrical noise interference. Useful from -60° to +180°F (-50° to +80°C). Color-coded red/white/black.		
FFE	330-FFE 330-FFE	100 ft (30 m) 1000 ft (300 m)	Stranded silver-plated copper wire, 3-conductor flat cable, etched Teflon® insulation: For use from -452°F to +500°F (-269°C to +260°C). Color-coded red/white/black. Insulation treated for bonding.	Pb-free RoHS COMPLIANT	
	330-FJT 330-FJT	100 ft (30 m) 1000 ft (300 m)	Stranded silver-plated copper wire, 3-conductor twisted cable, Teflon insulation, Teflon jacket: Small, flexible. For use from -452° to +392°F (-269° to +200°C). Color-coded red/white/black. When bonding Teflon-insulated wire, insulation must be treated with Tetra-Etch® compound (see "Special-Purpose Materials.")	Pb-free RoHS COMPLIANT	
	336-FTE	50 ft (15 m)	Stranded silver-plated copper wire, 3-conductor twisted cable, etched Teflon insulation: Small, flexible cable. For use from -452° to +500°F (-269° to +260°C). Color-coded red/white/black. Insulation treated for bonding.		
FJT FTE GJF	326-FTE 326-FTE 330-FTE 330-FTE	100 ft (30 m) 500 ft (150 m) 100 ft (30 m) 500 ft (150 m)	Stranded silver-plated copper wire, 3-conductor twisted cable, etched Teflon insulation: For use from -452° to +500°F (-269° to +260°C). Color-coded red/white/black. Insulation treated for bonding.		
	326-GJF 326-GJF	100 ft (30 m) 1000 ft (300 m)	Solid nickel-clad copper wire, 3-conductor twisted cable, fiberglass braid insulation and jacket: For use from -452° to +900°F (-269° to +480°C). Recommended for use with WK-Series gages when silver solder is used for lead attachment. Color-coded red/white/black.		

^{*}Some types may not be continuous length.

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		FOUR-COM	IDUCTOR CA	ABLE		
11 11		Type	Packaging			
	- 11	Туре	Foot (Meter)*	Description		
	771	426-BSV 426-BSV	100 ft (30 m) 1000 ft (300 m)	Stranded copper wire, 4-conductor twisted cable, PVC insulated braided shield: For use from -60° to +180°F (-50°C to +80°C).		
BSV	DFV	426-DFV 426-DFV 430-DFV 430-DFV	100 ft (30 m) 1000 ft (300 m) 100 ft (30 m) 1000 ft (300 m)	Stranded tinned-copper wire, 4-conductor flat cable, vinyl insulation: For use from -60° to +180°F (-50° to +80°C). Conductors easily separated for stripping and wiring. Color-coded red/white/black/green.		
		422-DSV 422-DSV 424-DSV 424-DSV	100 ft (30 m) 1000 ft (300 m) 100 ft (30 m) 1000 ft (300 m)	Stranded tinned-copper wire, 4-conductor polypropylene insulated: Twisted shielded pairs (red/black and white/green) with a drain wire, PVC jacket. For use from -60° to +180°F (-50°C to +80°C).		
		426-DTV 426-DTV	100 ft (30 m) 1000 ft (300 m)	Stranded tinned-copper wire, 4-conductor twisted cable, vinyl insulation: For use from -60° to +180°F (-50° to +80°C). Color-coded red/white/black/green.		
DSV		430-FST 430-FST	100 ft (30 m) 1000 ft (300 m)	Stranded silver-plated copper wire, 4-conductor twisted cable, Teflon® insulation, braided shield, Teflon jacket: Small, flexible cable. For use from -452° to +500°F (-269° to +260°C). Color-coded red/white/black/green. When bonding Teflon-insulated wire, insulation must be treated with Tetra-Etch® compound (see Special-Purpose Materials, document number 11008).	ROHS COMPLIANT	
		426-FTE 426-FTE	100 ft (30 m) 500 ft (150 m)	Stranded silver-plated copper wire, 4-conductor twisted cable, etched Teflon insulation: For use from -452° to +500°F (-269° to +260°C). Color-coded red/white/black/green. Insulation treated for bonding.		
FST	FTE/FTT	436-FTT 436-FTT	100 ft (30 m) 500 ft (150 m)	Stranded silver-plated copper wire, 4-conductor twisted cable, Teflon® insulation: Small, flexible cable. For use from -452° to +500°F (-269° to +260°C). Color coded red, white, black, green. When bonding Teflon insulated wire, insulation must be treated with Teflon etchant, such as TEC-1 (see Special- Purpose Materials, document number 11008).		
	FFT	426-FFT 426-FFT	100 ft (30 m) 500 ft (150 m)	Stranded silver-plated copper wire, 4-conductor flat cable, Teflon® insulation: For use from -452° to +500°F (-269° to +260°C). Color coded red, white, black, green. When bonding Teflon insulated wire, insulation must be treated with a Teflon etchant, such as TEC-1 (see Special-Purpose Materials, document number 11008).		
		FLAT RIBB	ON LEAD (UI	NINSULATED)		
		Turne	Packaging	Decarintian		
	1	Туре	Foot (Meter)*	Description		
		1-GL-64-001	50 ft (15 m)	Uninsulated flat ni-clad copper ribbon: 1/64 in wide x 0.001in thick (0.4 x 0.025 mm). For use from -452 to 900°F (-269 to +480°C). Can be easily soldered or spot welded.		
		1-KL-16-002	50 ft (15 m)	Uninsulated Nichrome V: 1/16 in wide x 0.002 in thick (1.6 x 0.05 mm). For use from -452 to + 2000°F (-269 to +1100°C).	Pb-free	
		1-KL-08-003	50 ft (15 m)	Uninsulated Nichrome V: 1/8 in wide x 0.003 in thick (3.2 x 0.08 mm). For use from -452 to +2000°F (-269 to +1100°C).	RoHS COMPLIANT	
		1-KL-08-005	50 ft (15 m)	Uninsulated Nichrome V: 1/8 in wide x 0.005 in thick (3.2 x 0.127 mm). For use from -452 to +2000°F (-269 to +1100°C).		

^{*}Some types may not be continuous length.

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HST-1 HEAT-SHRINKABLE WIRE SPLICE SEALANT



Fast, easy-to-use method for protecting wire splice connections. Constructed of irradiated polyolefin plastic tubing with a heat-flowable inner liner sealant. Forms an immediate and tight seal to splice connection at a shrink temperature of +275°F (+135°C). Inside diameter before heating is 0.125 in (3.2 mm); after heating, 0.023 in (0.6 mm). Large range of shrinkage allows use with leadwire insulation diameters from 0.03 to 0.11 in (0.75 to 2.8 mm). The operating temperature range is -65° to +230°F (-55° to +110°C). Package of eight 6-in (150-mm) lengths.

THERMAL WIRE STRIPPER



The ease and simplicity of operation of the Thermal Wire Stripper make it ideal for most strain gage leadwire stripping. The variable heat control allows stripping of all thermoplastic insulations, including Teflon®, in sizes No. 18 to No. 36 AWG (1 to 0.1 mm diameter). The foot switch and tweezer hand- piece give excellent operator control over the stripping operation. Includes power unit and foot switch, both with 3-wire NEMA plugs, and tweezer handpiece.

WTS-1: 110 Vac

WTS-2: 220 Vac (not CE rated)

WTS-A Replacement Elements: Set of two.

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