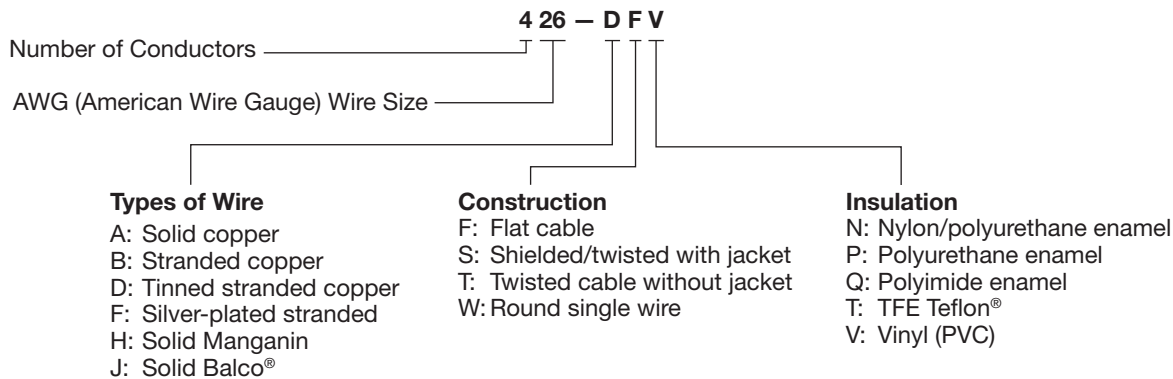


General Information and Selection for Transducer Applications

WIRE AND CABLE CODING SYSTEM



AWG	Diameter (nominal)		AWG	Diameter (nominal)	
	in	(mm)		in	(mm)
26	0.0159	0.404	36	0.0050	0.127
30	0.0100	0.254	37	0.0045	0.114
34	0.0063	0.160	42	0.0025	0.064

Balco is a registered trademark of W.B. Driver Company.
Teflon is a registered trademark of DuPont.

SINGLE-CONDUCTOR TYPES: SOLID WIRE

Type	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.
134-AWN 136-AWN	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 is available in four colors; specify: -R (red), -W (white), -B (black), -G (green).
130-AWQ 134-AWQ	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.
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 (46 ohms/m). Temperature range: +15° to +120°F (-10° to +50°C).
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 (62 ohms/m). Temperature coefficient of resistance: +0.25%/°F (+0.45%/°C). Temperature range: -15° to +300°F (-10° to +150°C).

*Some types may not be continuous length.

General Information and Selection

FOUR-CONDUCTOR CABLE		
Type (See Note 1)	Packaging	Description
	Foot (Meter)*	
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.
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. Outside diameter 0.10 in (2.5 mm) nominal.
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° to +80°C). Outside diameter of jacket: 0.15 in (3.8 mm) nominal.
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. Outside diameter of jacket: 0.12 in (3 mm) nominal.

*Some types may not be continuous length.

Note 1: Products shown in bold are not RoHS compliant

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.



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