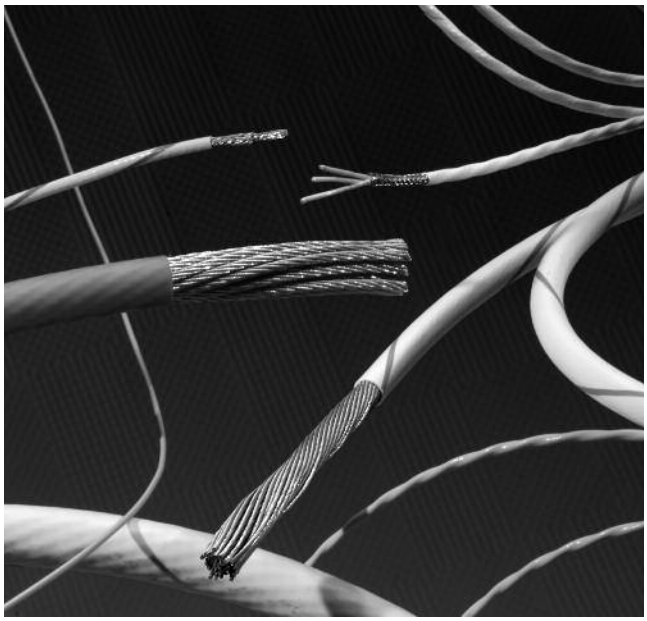
FlexLine (SPEC 80)

Product Facts

- Reduced weight
- Flexibility
- Low outgassing
- Function over a broad temperature range
- Flammability
- Arc track resistance
- Resistance to atomic oxygen
- Radiation resistance
- High quality and reliability
- Ease of fabrication (into Harnesses due to flexibility)
- Agency approvals
- -65°C up to +200°C [-85°F up to +395°F]
- Small size
- 600V rating
- Optional high strand count for increased flexibility
- Variety of insulation/jacket options
- Dual wall and single wall options
- Easy to install
- Mechanically tough
- Compliance with FAR 25 flammability requirements
- Resistance to harsh fluids & solvents per SAE-AS-22759



Applications

FlexLine wire (also known as SPEC 80) is insulated with a flexible modified radiation cross-linked ETFE polymer. It has a temperature rating of -65°C to +200°C [-85°F to +395°F] continuous using silver copper conductor, and combines the easy handling of our SPEC 55 wire and cable with additional flexibility. FlexLine wire is used in a broad range of applications, from Hook-up wire to Power Cables.

FlexLine wire constructions provide maximum flexibility similar to the SAE-AS-22759 products in Mechanical, Chemical and Thermal properties.

Available in:	Americas	Europe	Asia Pacific
	■	■	■

Catalog 1654025
Revised 5-12

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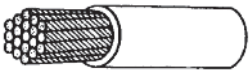
Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in millimeters unless otherwise specified.

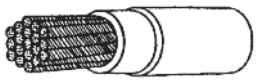
USA: +1 (800) 522-6752
Canada: +1 (905) 475-6222
Mexico/C. Am.: +52 (0) 55-1106-0800
Latin/S. Am.: +54 (0) 11-4733-2200
Germany: +49 (0) 6251-133-1999
UK: +44 (0) 800-267666
France: +33 (0) 1-3420-8686
Netherlands: +31 (0) 73-6246-999
China: +86 (0) 400-820-6015

FlexLine (SPEC 80) (Continued)

FlexLine Insulation System



Single Wall



Dual Wall

Single Wall 82 Wire
High strand count conductors
Light weight
AWG sizes 28 to 00
(6-mil nominal insulation thickness)

Dual Wall 81 Wire
Standard M22759 conductor stranding
Increased toughness
AWG sizes 28 to 000
(10-mil nominal insulation thickness)

Part Numbering System 81 & 82 — General Purpose, Outer Space

82 A 1 1 2 1 - AWG - 0/9 - 9

Jacket Color (code per MIL-STD-681)
Codes same as for Primary Wire Insulation Color

Primary Wire Insulation Color (code per MIL-STD-681)

0 - Black	4 - Yellow	8 - Gray
1 - Brown	5 - Green	9 - White
2 - Red	6 - Blue	
3 - Orange	7 - Violet	

Conductor Size (AWG)

Conductor Type

1 - Tin-coated copper	4 - Silver-coated high strength copper alloy
2 - Silver-coated copper	
3 - Nickel-coated copper	6 - Nickel-coated high strength copper alloy

Number of Conductors
1 through 10 (designator for 10 conductor = 0)

Class of Wire
1 - 600 volt, lightweight
8 - 600 volt, normal weight

Construction
0 - Primary wire or unshielded & unjacketed cable
1 - *Round-braid shielded & jacketed cable
2 - *Flat-braid shielded & jacketed cable
3 - *Round-braid shielded cable, no jacket
4 - Jacketed cable, no shield
5 - *Spiral- braid shielded & jacketed cable
6-9 Special constructions

Product Type
/ - Outer Space
A - General Purpose
AC- Same as A with 90% min. shield coverage
B - Discontinued

Basic Product Number
81 - Normal Stranding
82 - High Stranding

Part Numbering System is a cross reference only and not meant for part creation.

* Shield coating same as conductor coating except for the following:
- for conductor type 4, shield shall be tin-coated copper
- for conductor type 6, flat braid only, shield shall be tin-plated copper

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