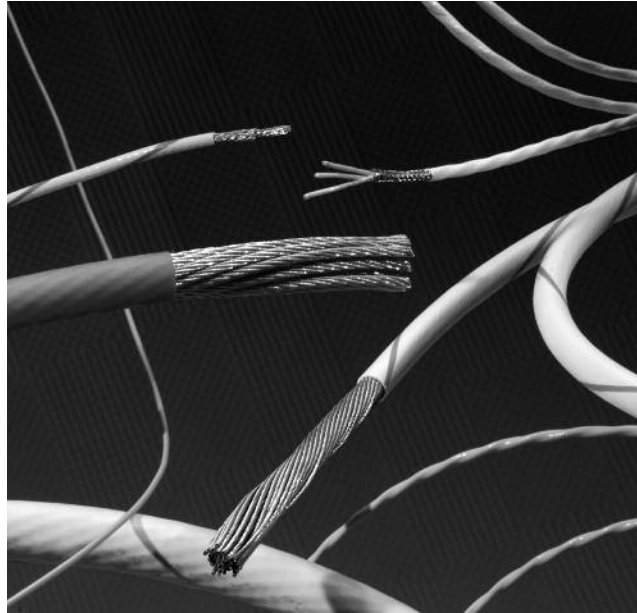


## FlexLine (SPEC 80)

### 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

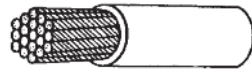
FlexLine wire (also known as SPEC 80) is insulated with a flexible modified radiation cross-linked ETFE polymer. It has a temperature rating of -65°C to +200°C [-85°F to +395°F] continuous using silver copper conductor, and combines the easy handling of our SPEC 55 wire and cable with additional flexibility.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

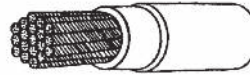
**FlexLine (SPEC 80)** (Continued)

**FlexLine Insulation System**



**Single Wall**

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



**Dual Wall**

**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	6 - Nickel-coated high strength copper alloy
3 - Nickel-coated copper	
- 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