

# PRODUCT DATA

## Primary Wire

Prestolite manufactures a full assortment of standard wire and cable products for the automotive OEM, including primary wire, ABS cable and battery cable. However, we specialize in designing custom cable and wire set solutions to meet specific requirements for signal transmission, environmental concerns such as temperature or abrasion, and space constraints under the hood or in the chassis. Please contact us for information on any standard or custom product need.



### Applications

Bulk wire used in wiring harnesses in passenger cars and light trucks, agricultural tractors, construction, locomotive and off-the-road vehicles.

- |                             |                          |
|-----------------------------|--------------------------|
| n Fuel Tank Wire            | n Instrument Panel Wire  |
| n Transmission Wire         | n Air Bag Wire           |
| n Engine Wire               | n Seat Pretensioner Wire |
| n Steering Wheel Wire       | n Speaker Wire           |
| n Sliding Door Sensor Wire  | n Knock Sensor Wire      |
| n Electronic Fan Drive Wire | n SAE Wire               |
| n Fuse Link                 | n ISO Wire               |
| n Oxygen Sensor Wire        | n JASO Wire              |
| n Cabin/Chassis Wire        | n DIN Wire               |

### Features

- |  |                                      |
|--|--------------------------------------|
| n Thin and ultra-thin wall design construction | n Multi-conductor cable construction |
| n Excellent heat-resistant insulation          | n Dual wall design construction      |
| n Flexible conductor stranding                 | n Small bundle sizes                 |
| n High flex life                               | n Lightweight construction           |
| n High abrasion-resistant insulation           | n High temperature insulation        |
| n Lead and heavy metal free insulation         |                                      |

### Conductors

- |  |                                 |
|--|---------------------------------|
| n Stranded bare copper and tinned copper | n Others available upon request |
|--|---------------------------------|

### Voltage Rating

- n Low voltage applications

### Packaging

- n Details and options available upon request

# PRODUCT DATA

## Primary Wire

### ISO 6722 Class A, B, C & D Thick Wall

#### Class A

- n Temperature range -40°C to 85°C

#### Class B

- n Temperature range -40°C to 105°C

#### Class C

- n Temperature range -40°C to 125°C

#### Class D

- n Temperature range -40°C to 150°C\*

\*Ford S97GG14401AA, WSK 1A 348-A2, A3, A4 also available.

#### Conductor

- n Stranded bare copper

#### Features

- n Meets USCAR 23
- n Good pinch and abrasion resistance
- n Good fuel resistance

#### Specifications

MM2	Number of Strands	Insulation Thickness (mm)	Maximum OD (mm)
.50	19	.60	2.30
.75	19	.60	2.50
1	19	.60	2.70
1.5	30	.60	3.00
2	19	.60	3.30
2.5	50	.70	3.60
3	19	.70	4.10
4	56	.80	4.40
5	19	.80	4.90
6	84	.80	5.00
10	75	1.00	6.50

### ISO 6722 Class A, B, C & D Thin Wall

#### Class A

- n Temperature range -40°C to 85°C

#### Class B

- n Temperature range -40°C to 105°C

#### Class C

- n Temperature range -40°C to 125°C

#### Class D

- n Temperature range -40°C to 150°C\*

\*Ford S97GG14401AA, WSK 1A 348-A2, A3, A4 also available.

#### Conductor

- n Stranded bare copper

#### Features

- n Meets USCAR 23
- n Good pinch and abrasion resistance
- n Good fuel resistance

#### Specifications

MM2	Number of Strands	Insulation Thickness (mm)	Maximum OD (mm)
.50	19	.28	1.70
.75	19	.30	1.90
1	19	.30	2.10
1.5	30	.30	2.40
2	19	.35	2.80
2.5	50	.35	3.00
3	19	.40	3.40
4	56	.40	3.80
5	19	.40	4.20
6	84	.40	4.30
10	75	.48	6.00

### Ford Specification WSS-M1L135-A1

#### Conductor

- n Stranded bare copper

#### Temperature Rating

- n Temperature range -40°C to 125°C

#### Features

- n Excellent heat resistance and flexibility

#### Specifications

AWG	Stranding	Insulation Thickness (inches)	Maximum OD (inches)
22	7 x 30	.010	.050
20	7 x 28	.010	.058
18	19 x .0092	.010	.066
16	19 x 29	.010	.077
14	19 x 27	.012	.095

## S.A.E. J1128, Type TXL

Chrysler Specification MS-8288 (bare copper)  
 Ford Specification ESB-M1L123-A (bare copper), -M1L123-A2 (tinned copper)

### Insulation

- n Cross-linked polyolefin, available in solid colors and stripes

### Temperature Rating

- n Recommended temperature range is from -40°C to 125°C

### Features

- n Excellent heat resistance and flexibility

### Specifications

AWG	Stranding	Insulation Thickness (inches)	Nominal OD (inches)	Copper Weight (lbs per M ft.)
22*	7 x 30	.016	.062	2.08
20	7 x 28	.016	.070	3.37
18 <sup>††</sup>	19 x .0092 (or) 16 x 30	.016	.078	4.86
16	19 x 29	.016	.088	7.38
14	19 x 27	.016	.103	11.77
12	19 x 25	.018	.128	18.63
10**	19 x 23	.021	.156	30.02
8 <sup>**†</sup>	19 x 21	.022	.191	48.03

Delphi Specification M-3075 also available.

\*Not available for Chrysler MS-8288. \*\*Available with or without a separator. †Available for S.A.E. J1128 and Chrysler MS-8288 only. ††Available with either 16 or 19 bare or tinned copper strands to meet S.A.E. J1128 and Ford ESB-M1L123-A.

## Chrysler Specification MS-9502

### Insulation

- n Cross-linked polyolefin

### Conductor

- n Stranded bare copper

### Temperature Rating

- n Temperature range -40°C to 150°C

### Features

- n Good heat resistance

### Specifications

AWG	Stranding	Insulation Thickness (inches)	Maximum OD (inches)
20	7 x 28	.016	.070
18	19 x .0092	.016	.078
16	19 x 29	.016	.088
14	19 x 27	.016	.103
12	19 x 25*	.018	.128
10	19 x 23*	.021	.156

\*Flexible stranding available for 12 AWG and 10 AWG.

## S.A.E. J1128, Type GXL

Chrysler Specification MS-8900 (bare copper)  
 Ford Specification ESB-M1L85-B (bare copper), -M1L86-A (tinned copper)

### Insulation

- n Cross-linked polyolefin, available in solid colors and stripes

### Temperature Rating

- n Recommended temperature range is from -40°C to 125°C

### Features

- n Excellent heat resistance
- n Smaller diameter and lighter weight than standard duty S.A.E. J1128, Type SXL

### Specifications

AWG	Stranding	Insulation Thickness (inches)	Nominal OD (inches)	Copper Weight (lbs per M ft.)
20	7 x 28	.023	.084	3.37
18	16 x 30	.023	.091	5.00
16	19 x 29	.023	.106	7.38
14	19 x 27	.023	.117	11.77
12	19 x 25	.026	.143	18.63
10	19 x 23	.031	.175	29.30

Delphi Specification M-3070 also available.



## S.A.E. J1128, Type SXL

Chrysler Specification MS-5919 (bare copper)  
 Ford Specification ESB-M1L85-A (bare copper), -M1L86-A (tinned copper)

### Insulation

- n Cross-linked polyolefin, available in solid colors and stripes

### Temperature Rating

- n Recommended temperature range is from -40°C to 125°C

### Features

- n Excellent heat and abrasion resistance

### Specifications

AWG	Stranding	Insulation Thickness (inches)	Nominal OD (inches)	Copper Weight (lbs per M ft.)
20	7 x 28	.029	.096	3.37
18	16 x 30	.030	.107	5.00
16	19 x 29	.032	.120	7.38
14	19 x 27	.035	.141	11.77
12	19 x 25	.037	.163	18.63
10	19 x 23	.041	.195	29.30
8	19 x 21	.043	.231	48.03

Delphi Specification M-3023 also available.

## Ford Specification WSB-M1L134-A1 Chrysler Specification MS-9532

### Insulation

- n PVC

### Conductor

- n Stranded bare copper

### Temperature Rating

- n Temperature range -40°C to 85°C

### Features

- n Excellent resistance to oil and flame

### Specifications

AWG	Stranding	Insulation Thickness (inches)	Maximum OD (inches)
22	7 x 30	.010	.050
20	7 x 28	.010	.058
18	19 x .0092	.010	.066
16	19 x 29	.010	.077
14	19 x 27	.012	.095

## S.A.E. J1128, Type TWP

Chrysler Specification MS-7889  
 Ford Specification ESB-M1L120-A

### Insulation

- n PVC available in solid colors and stripes

### Conductor

- n Stranded bare copper is standard. Tinned copper conductors are available as an alternate stranding upon special request

### Temperature Rating

- n Recommended temperature range is from -40°C to 85°C. High temperature wire is available upon request

### Features

- n Excellent resistance to oil and flame
- n Lighter weight and smaller bundle size than S.A.E. J1128, Types GPT and HDT

### Specifications

AWG	Stranding	Insulation Thickness (inches)	Nominal OD (inches)	Copper Weight (lbs per M ft.)
22	7 x 30	.016	.062	2.10
20	7 x 28	.016	.070	3.37
18	19 x .0092	.016	.078	4.94
16	19 x 29	.016	.089	7.38
14	19 x 27	.016	.103	11.77
12	19 x 25	.018	.126	18.63
10	19 x 23	.021	.155	29.30

Delphi Specification M-3089 also available.

# PRODUCT DATA

## Primary Wire

### Ford Specification ESA-M1L77-A Ford Specification ESB-M1L77-A2 (Anti-Fogging)

**Insulation**

n PVC available in solid colors and stripes

**Conductor**

n Stranded bare copper

**Temperature Rating**

n Temperature range -40°C to 85°C

**Features**

n Increased flexibility

**Specifications**

AWG	Stranding	Insulation Thickness (inches)	Maximum OD (inches)
20	41 x 36	.020	.078
18	65 x 36	.023	.087
16	65 x 34	.023	.102
14	65 x 32	.023	.122

### S.A.E. J1128, Type GPT

Chrysler Specification MS-3450  
Ford Specification ESB-M1L56-A

**Insulation**

n PVC available in solid colors and stripes

**Conductor**

n Stranded bare copper is standard. Tinned copper conductors are available upon special request for S.A.E. J1128

**Temperature Rating**

n Recommended temperature range is from -40°C to 85°C. High temperature wire is available upon request

**Features**

n Excellent resistance to oil, flame and abrasion

**Specifications**

AWG	Stranding	Insulation Thickness (inches)	Nominal OD (inches)	Copper Weight (lbs per M ft.)
20	7 x 28	.023	.084	3.37
18	16 x 30	.023	.092	4.88
16	19 x 29	.023	.103	7.38
14	19 x 27	.023	.117	11.77
12	19 x 25	.026	.142	18.63
10	19 x 23	.031	.175	28.72

Ford Specification -M1L57-A (tinned copper), -M1L58-A (bare copper), -M1L59-A (tinned copper) also available.

### S.A.E. J1128, Type HDT

Chrysler Specification MS-3494  
Ford Specification ESB-M1L50-A

**Insulation**

n PVC available in solid colors and stripes

**Conductor**

n Stranded bare copper is standard. Tinned copper conductors are available as an alternate stranding upon special request

**Temperature Rating**

n Recommended temperature range is from -40°C to 85°C. High temperature wire is available upon request

**Features**

n Excellent resistance to oil and flame  
n Increased resistance to abrasion over S.A.E. J1128, Type GPT

**Specifications**

AWG	Stranding	Insulation Thickness (inches)	Nominal OD (inches)	Copper Weight (lbs per M ft.)
20	7 x 28	.036	.110	3.37
18	16 x 30	.037	.122	4.88
16	19 x 29	.040	.138	7.38
14	19 x 27	.041	.153	11.77
12	19 x 25	.046	.190	18.63
10	19 x 23	.046	.206	28.72



# PRODUCT DATA

## Primary Wire

### S.A.E. J1128, Type HTS; Fusible Links — S.A.E. J156a

Chrysler Specification MS-3877  
Ford Specification ESB-M1L54-A

#### Insulation

- n Hypalon® (chlorosulfonated polyethylene), available in solid colors and stripes

#### Conductor

- n Stranded copper for all sizes. 20 to 12 AWG feature tinned copper conductors, and 10 to 6 AWG feature bare copper conductors with a paper serve

#### Temperature Rating

- n Recommended temperature range is from -40°C to 105°C

#### Features

- n Superior resistance to oil and flame
- n Increased resistance to abrasion over S.A.E. J1128, Type STS

*Note: Type STS features a thinner wall than Type HTS and is available on special request.*

Chrysler Specification MS-6544 also available.

#### Specifications

AWG	Stranding	Insulation Thickness (inches)	Nominal OD (inches)	Copper Weight (lbs per M ft.)
20	7 x 28*	.037	.116	3.40
18	16 x 30*	.037	.127	4.93
16	19 x 29*	.041	.139	7.49
14	19 x 27*	.041	.155	11.60
12	19 x 25*†	.046	.184	18.63
10	19 x 23**	.046	.213	29.30
8	19 x 21**	.056	.258	48.03
6	37 x 21**	.062	.321	92.40

\*Tinned copper conductors. \*\*Bare copper conductors with paper serve. †Includes a Mylar separator.

### Chrysler Specification MS-9673

#### Insulation

- n CPE (chlorinated polyethylene)

#### Conductor

- n Stranded bare copper

#### Temperature Rating

- n Temperature range -40°C to 90°C

#### Features

- n Excellent flame resistance
- n Good fuel resistance
- n Excellent pinch and abrasion resistance

#### Specifications

AWG	Stranding	Insulation Thickness (inches)	Maximum OD (inches)
18	19 x .0092*	.037	.133
16	19 x 29*	.040	.148
14	19 x 27*	.040	.165
12	19 x 25*	.046	.201
10	105 x 30	.048	.226

\*Flexible stranding available.

#### For Product Information, Quotations and Ordering

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