

## Wire Rack



### 80-191 Wire rack

- Holds 12' - 100' rolls
- For rolls up to 12 ga.
- Ideal for the 80-2006 primary wire assortment

## Parallel Wire



Fig. 1



Fig. 2



Fig. 3

| Part No. | Gauge | Type   | Jacket Color External       | Jacket Color Internal | Length | Std. Pkg. |
|----------|-------|--------|-----------------------------|-----------------------|--------|-----------|
| 2-401    | 2/16  | Fig. 1 | Gray                        | Black, white          | 100'   | Spool     |
| 2-402    | 2/14  | Fig. 1 | Gray                        | Black, white          | 100'   | Spool     |
| 2-403    | 2/12  | Fig. 1 | Gray                        | Black, white          | 100'   | Spool     |
| 2-404    | 2/10  | Fig. 1 | Gray                        | Black, white          | 100'   | Spool     |
| 2-422    | 3/16  | Fig. 2 | Brown, yellow, green        | -                     | 100'   | Spool     |
| 2-423    | 4/16  | Fig. 3 | Brown, yellow, green, white | -                     | 100'   | Spool     |
| 2-424    | 3/14  | Fig. 2 | Brown, yellow, green        | -                     | 100'   | Spool     |
| 2-425    | 4/14  | Fig. 3 | Brown, yellow, green, white | -                     | 100'   | Spool     |
| 2-426    | 3/12  | Fig. 2 | Brown, yellow, green        | -                     | 100'   | Spool     |

## U.L. Service Cord



| Part No. | Gauge | Internal Wire Color | Strands | Length | Pkg.  |
|----------|-------|---------------------|---------|--------|-------|
| 3-112    | 2/14  | Black, white        | 41 x 30 | 250'   | Spool |
| 3-113    | 3/14  | Black, white, green | 41 x 30 | 250'   | Spool |

- Type SJ00W cable
- Great flexibility and excellent resistance to oil and moisture
- Good tensile strength, elongation and aging characteristics
- Excellent abrasion resistance
- UL, CSA certified for indoor/outdoor use
- 300V at -40°F to 194°F (-40°C to 90°C)

## Wire Stripping and Crimping Tool



### 4-214 Wire stripping and crimping tool

- Multi-purpose tools
- Strips wire sizes from 22 ga. thru 10 ga.
- Crimps insulated and non-insulated terminals
- Machined for precision wire cuts and strips
- Color-coded to ensure proper crimp
- Overlapping teeth provide a consistent cut
- Insulated handles for safety

**PHILIPS**

WE MAKE PRODUCTS THAT MAKE A DIFFERENCE®

# PRIMARY WIRE



### Primary Wire

Individual Spools From 18 To 8 ga.  
Parallel Wire  
UL Service

### Storage Wire Rack



### Tools

Wire Stripping and  
Crimping Tool



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# PHILLIPS PRIMARY WIRE

- SAE Type GPT (General Purpose Thermoplastic) wire
- Resistant to acids, greases, oils and fuels
- Good abrasion resistance
- Concentric jacketing allows for easy wire stripping
- Soft annealed copper conductors for flexibility
- Operating temperature range -40°F to 150°F (-40°C to 66°C)
- Meets SAE J1128, type GPT
- 60V DC

## 4-Way Connector Chart

| Color    | Circuits                    | Phillips Plug/<br>Socket ID |
|----------|-----------------------------|-----------------------------|
| ○ White  | Ground return               | W                           |
| ● Green  | Right turn and brake lights | G                           |
| ● Yellow | Left turn and brake lights  | R                           |
| ● Red    |                             |                             |
| ● Brown  | Tail lights                 | B                           |

## 6-Way Connector Chart

| Color    | Circuits          | Phillips Plug/<br>Socket ID |
|----------|-------------------|-----------------------------|
| ○ White  | Ground return     | GD                          |
| ● Brown  | Tail lights       | TM                          |
| ● Yellow | Left turn         | LT                          |
| ● Red    | Stop              | S                           |
| ● Green  | Right turn        | RT                          |
| ● Black  | Auxiliary circuit | A                           |

## 7-Way ATA Connector Chart Per SAE J560

| Color    | Circuits                   | Phillips Plug/<br>Socket ID |
|----------|----------------------------|-----------------------------|
| ○ White  | Ground return              | WHT                         |
| ● Black  | Clearance, marker and I.D. | BLK                         |
| ● Brown  | Tail lights                | BRN                         |
| ● Yellow | Left turn                  | YEL                         |
| ● Red    | Stop                       | RED                         |
| ● Green  | Right turn                 | GRN                         |
| ● Blue   | Auxiliary/ABS              | BLU                         |

## HOW TO USE THIS CHART:

1. Measure distance from power source/battery to the most distant lamp
2. Determine the total amp draw by adding the amp draw of all the lamps on the circuit
3. Double the distance to include the ground return wire
4. Determine wire gauge by intersecting the length and amp column on the chart. If the length or total amp draw falls in between columns, always use the higher gauge wire

## WIRE GAUGE SELECTION CHART

| 12-Volt System<br>Amps (APP.) | Total Length of Cable in Circuit from Battery to Most Distant Lamp Including Ground Side |       |        |        |        |        |        |        |        |         |
|-------------------------------|--|-------|--------|--------|--------|--------|--------|--------|--------|---------|
|                               | 2.5 ft.  | 5 ft. | 10 ft. | 20 ft. | 30 ft. | 40 ft. | 50 ft. | 60 ft. | 80 ft. | 100 ft. |
| 1.0                           | 20   | 20    | 20     | 20     | 20     | 20     | 20     | 20     | 20     | 18      |
| 1.5                           | 20   | 20    | 20     | 20     | 20     | 20     | 20     | 20     | 18     | 18      |
| 2                             | 20   | 20    | 20     | 20     | 20     | 20     | 20     | 18     | 16     | 16      |
| 3                             | 20   | 20    | 20     | 20     | 20     | 18     | 18     | 16     | 16     | 14      |
| 4                             | 20   | 20    | 20     | 20     | 18     | 16     | 16     | 16     | 14     | 12      |
| 5                             | 20   | 20    | 20     | 18     | 18     | 16     | 14     | 14     | 12     | 12      |
| 6                             | 20   | 20    | 20     | 18     | 16     | 16     | 14     | 14     | 12     | 12      |
| 7                             | 20   | 20    | 20     | 18     | 16     | 14     | 14     | 12     | 12     | 10      |
| 8                             | 20   | 20    | 20     | 16     | 16     | 14     | 12     | 12     | 10     | 10      |
| 10                            | 20   | 20    | 18     | 16     | 14     | 12     | 12     | 12     | 10     | 10      |
| 11                            | 20   | 20    | 18     | 16     | 14     | 12     | 12     | 10     | 10     | 8       |
| 12                            | 20   | 20    | 18     | 16     | 14     | 12     | 12     | 10     | 10     | 8       |
| 15                            | 20   | 20    | 18     | 14     | 12     | 12     | 10     | 10     | 8      | 8       |
| 18                            | 20   | 20    | 16     | 14     | 12     | 10     | 10     | 8      | 8      | 8       |
| 20                            | 20   | 18    | 16     | 12     | 12     | 10     | 10     | 8      | 8      | 6       |
| 22                            | 20   | 18    | 16     | 12     | 10     | 10     | 8      | 8      | 8      | 6       |
| 24                            | 20   | 18    | 16     | 12     | 10     | 10     | 8      | 8      | 6      | 6       |
| 36                            | 20   | 16    | 14     | 10     | 8      | 8      | 8      | 6      | 6      | 4       |
| 50                            | 18   | 16    | 12     | 10     | 8      | 6      | 6      | 4      | 4      | 2       |
| 100                           | 14   | 12    | 10     | 6      | 4      | 4      | 2      | 2      | 1      | 1/0     |
| 150                           | 14   | 10    | 8      | 4      | 2      | 2      | 1      | 1/0    | 2/0    | 3/0     |
| 200                           | 12   | 8     | 6      | 4      | 2      | 1      | 1/0    | 2/0    | 3/0    | 4/0     |

## 18 Gauge

| Color    | 40' Blister Pack | 100' Spool |
|----------|------------------|------------|
| ● Black  | 2-1013           | 2-101      |
| ● Blue   | 2-1023           | 2-102      |
| ● Green  | 2-1043           | 2-104      |
| ● Red    | 2-1053           | 2-105      |
| ○ White  | 2-1063           | 2-106      |
| ● Yellow | 2-1073           | 2-107      |

## 16 Gauge

| Color    | 28' Blister Pack | 100' Spool | 1000' Spool |
|----------|------------------|------------|-------------|
| ● Black  | 2-1113           | 2-111      | 2-111-1000  |
| ● Blue   | 2-1123           | 2-112      | -           |
| ● Brown  | 2-1133           | 2-113      | -           |
| ● Green  | 2-1143           | 2-114      | -           |
| ● Red    | 2-1153           | 2-115      | 2-115-1000  |
| ○ White  | 2-1163           | 2-116      | 2-116-1000  |
| ● Yellow | 2-1173           | 2-117      | 2-117-1000  |

## 14 Gauge

| Color    | 20' Blister Pack | 100' Spool | 1000' Spool |
|----------|------------------|------------|-------------|
| ● Black  | 2-1213           | 2-121      | 2-121-1000  |
| ● Blue   | 2-1223           | 2-122      | 2-122-1000  |
| ● Brown  | 2-1233           | 2-123      | 2-123-1000  |
| ● Green  | 2-1243           | 2-124      | 2-124-1000  |
| ● Red    | 2-1253           | 2-125      | 2-125-1000  |
| ○ White  | 2-1263           | 2-126      | 2-126-1000  |
| ● Yellow | 2-1273           | 2-127      | 2-127-1000  |

## 12 Gauge

| Color    | 12' Blister Pack | 100' Spool | 1000' Spool |
|----------|------------------|------------|-------------|
| ● Black  | 2-1313           | 2-131      | 2-131-1000  |
| ● Blue   | 2-1323           | 2-132      | 2-132-1000  |
| ● Brown  | 2-1333           | 2-133      | -           |
| ● Green  | 2-1343           | 2-134      | 2-134-1000  |
| ● Red    | 2-1353           | 2-135      | 2-135-1000  |
| ○ White  | 2-1363           | 2-136      | -           |
| ● Yellow | 2-1373           | 2-137      | 2-137-1000  |

80-2006

Primary wire assortment

| Replacement Part No. | Description                              | Qty. |
|----------------------|--|------|
| 2-111                | Primary wire, 16 ga., black, 100' spool  | 1    |
| 2-112                | Primary wire, 16 ga., blue, 100' spool   | 1    |
| 2-115                | Primary wire, 16 ga., red, 100' spool    | 1    |
| 2-121                | Primary wire, 14 ga., black, 100' spool  | 1    |
| 2-122                | Primary wire, 14 ga., blue, 100' spool   | 1    |
| 2-123                | Primary wire, 14 ga., brown, 100' spool  | 1    |
| 2-124                | Primary wire, 14 ga., green, 100' spool  | 1    |
| 2-125                | Primary wire, 14 ga., red, 100' spool    | 1    |
| 2-126                | Primary wire, 14 ga., white, 100' spool  | 1    |
| 2-127                | Primary wire, 14 ga., yellow, 100' spool | 1    |
| 2-131                | Primary wire, 12 ga., black, 100' spool  | 1    |
| 2-135                | Primary wire, 12 ga., red, 100' spool    | 1    |

## Primary Wire



## 10 Gauge

| Color    | 8' Blister Pack | 100' Spool |
|----------|-----------------|------------|
| ● Black  | 2-1413          | 2-141      |
| ● Blue   | 2-1423          | 2-142      |
| ● Green  | -               | 2-144      |
| ● Red    | 2-1453          | 2-145      |
| ○ White  | 2-1463          | 2-146      |
| ● Yellow | 2-1473          | 2-147      |

## 8 Gauge

| Color   | 6' Blister Pack | 100' Spool |
|---------|-----------------|------------|
| ● Black | 2-1513          | 2-151      |
| ● Red   | 2-1553          | 2-155      |
| ○ White | -               | 2-156      |

## Primary Wire Assortment

12 spool wire assortment,  
fits in 80-191 rack

