

# SERIES 800 UN THREAD MATING Mighty Mouse Connectors and Cables



### Series 800 Mighty Mouse Overmolded Cordsets



High performance Mighty Mouse cordsets feature easy ordering and fast delivery. These fully shielded and watertight assemblies withstand abrasion, temperature extremes, and chemicals. Flexible overmolding provides rugged, watertight protection to wire and shield. Two styles are available: **Style 1** features low smoke, zero halogen polyamide overmold, and polyurethane cable jacket. **Style 2** features improved temperature operating range and highly flexible thermoplastic rubber overmold and cable jacket. Overmolded Mighty Mouse cordsets are suitable for military gear and other hostile environments where interconnect reliability and survivability is essential.

#### **Product Features**

- Single-ended or doubleended
- Rugged, watertight construction
- 100% electrically tested
- Flexible to -55°C. (Style 2)
- Stainless steel shield termination band
- Resistant to chemicals
- Withstands UV and ozone

| <b>High-Speed</b> | Cordsets |
|-------------------|----------|
|-------------------|----------|

Controlled impedance twisted pair cordsets for Ethernet, USB, and other protocols are available. Please refer to Section M

| Harsh Environment Cordset Selection Guide |  |   |  |  |  |  |  |  |
|---|--|---|--|--|--|--|--|--|
| Property                                  | Style 1<br>Polyurethane Jacket<br>Polyamide Overmold | Style 2<br>Rubber Jacket<br>Rubber Overmold |  |  |  |  |  |  |
| Cable jacket                              | Thermoplastic polyurethane<br>(TPU), black           | Thermoplastic elastomer (TPV),<br>black     |  |  |  |  |  |  |
| Overmold                                  | Polyamide, black                                     | Thermoplastic elastomer (TPV),<br>black     |  |  |  |  |  |  |
| Operating temperature                     | -30° C. to +105° C.                                  | -55° C. to +135° C.                         |  |  |  |  |  |  |
| Flexibility                               | Good   | Excellent                                   |  |  |  |  |  |  |
| Water Resistance                          | Waterproof   | Waterproof                                  |  |  |  |  |  |  |
| Solvent Resistance, Cable<br>Jacket       | Excellent  | Good  |  |  |  |  |  |  |
| Solvent Resistance, Overmold              | Fair (1)   | Good  |  |  |  |  |  |  |
| Weatherability                            | Excellent  | Excellent                                   |  |  |  |  |  |  |
| Abrasion Resistance                       | Excellent  | Good  |  |  |  |  |  |  |
| Flammability                              | Flame retardant UL 94 V-0                            | Flame retardant UL 94 HB                    |  |  |  |  |  |  |
| Low Smoke, Zero Halogen<br>Cable Jacket   | Yes  | No  |  |  |  |  |  |  |
| (1) Excellent resistance to most s        | alvents fuels and ails noor resist                   | ance to strong acids and hinglar            |  |  |  |  |  |  |

(1) Excellent resistance to most solvents, fuels, and oils; poor resistance to strong acids and bipolar solvents (alcohol)

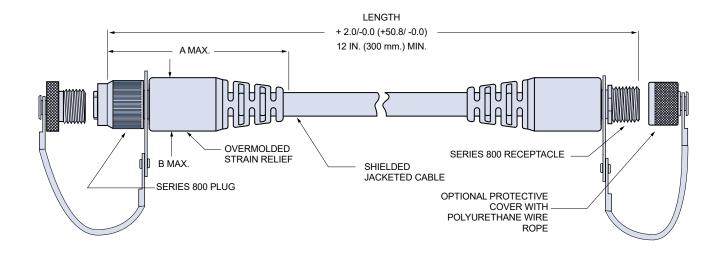
| Specifications          |  |  |  |  |  |  |
|-------------------------|--|--|--|--|--|--|
| Cable jacket            | Style 1: thermoplastic polyurethane, black, low-smoke, zero-halogen<br>Style 2: thermoplastic elastomer, black |  |  |  |  |  |
| Overmold                | Style 1: polyamide Style 2: thermoplastic elastomer, black   |  |  |  |  |  |
| Cable shield            | Tin-coated copper braid, 90% minimum coverage  |  |  |  |  |  |
| Conductors              | Silver coated stranded wire, TFE insulated, per M22759/11  |  |  |  |  |  |
| Shield Termination      | Band-Master™ ATS stainless steel shield termination band   |  |  |  |  |  |
| Current rating          | #23–5 amps, #20–7.5 amps, #16–13 amps, #12–23 amps   |  |  |  |  |  |
| Test voltage (DWV)      | #23-750 Vac, #20-1000 vac, #16 and #12-1800 VAC sea level  |  |  |  |  |  |
| Insulation resistance   | 200 Megohms minimum  |  |  |  |  |  |
| Shielding effectiveness | 50 dB minimum from 100MHz to 1000MHz.  |  |  |  |  |  |



## SERIES 800 UN THREAD MATING Mighty Mouse Connectors and Cables Glenair.



## Series 800 Mighty Mouse **Overmolded Cordsets**



|       | Dimensions |       |        |       |  |  |  |  |  |  |  |  |
|-------|------------|-------|--------|-------|--|--|--|--|--|--|--|--|
| Shell | A M        | 1ax.  | B Max. |       |  |  |  |  |  |  |  |  |
| Size  | ln.        | mm.   | ln.    | mm.   |  |  |  |  |  |  |  |  |
| 5     | 2.30       | 12.70 | 0.50   | 12.70 |  |  |  |  |  |  |  |  |
| 6     | 2.40       | 13.97 | 0.55   | 13.97 |  |  |  |  |  |  |  |  |
| 7     | 2.50       | 16.51 | 0.65   | 16.51 |  |  |  |  |  |  |  |  |
| 8     | 2.55       | 18.03 | 0.71   | 18.03 |  |  |  |  |  |  |  |  |
| 9     | 2.75       | 19.81 | 0.78   | 19.81 |  |  |  |  |  |  |  |  |
| 10    | 2.71       | 20.83 | 0.82   | 20.83 |  |  |  |  |  |  |  |  |
| 12    | 2.90       | 22.86 | 0.9    | 22.86 |  |  |  |  |  |  |  |  |

#### **NOTES**

- 1. Double-ended cordsets are wired pin #1 to pin #1, #2 to #2, and so on.
- 2. Wires are silver-coated stranded copper with TFE insulation, 600V, in accordance with M22759/11.
- 3. Wire color is white.



# SERIES 800 UN THREAD MATING Mighty Mouse Connectors and Cables Glenair.



## Series 800 Mighty Mouse **Overmolded Cordsets**

|   |   |   | Series 800 C  | ordsets                            | with #23 Contac  | ts  |  |   |   |  |  |  |  |
|---|---|---|---|------------------------------------|--|---|--|---|---|--|--|--|--|
|   | Sample Part Number  |   |   |                                    |  |   |  |   |   |  |  |  |  |
| 800-034   | -A C K 2 M 8-28 N X   |   |   |                                    |  |   |  |   |   |  |  |  |  |
| Series  | End A<br>Connector  | End B<br>Connector  | Plug Style  | Wire<br>Size                       | Shell Material/<br>Finish  | Insert Arr.   | Protective<br>Cover  | Shell Key<br>Pos.   | Length  |  |  |  |  |
| 800-034 Style 1 Polyurethane Cable Jacket, Polyamide Overmold 800-056 Style 2 Rubber Cable Jacket and Rubber Overmold, #23 Contacts | -A Plug, with Male Pin Contacts -B Plug, with Female Socket Contacts -C Receptacle, with Male Pin Contacts -D Receptacle, with Female Socket Contacts | A Plug, with Male Pin Contacts B Plug, with Female Socket Contacts C Receptacle, with Male Pin Contacts D Receptacle, with Female Socket Contacts N No Connector (Single-Ended) | K Round Knurled Coupling Nut KL Round Knurled Coupling Nut, Self-Locking H Hex Coupling Nut HL Hex Coupling Nut, Self- Locking N Receptacle Cable | 2<br>#22<br>AWG<br>4<br>#24<br>AWG | M Aluminum / Electroless Nickel NF Aluminum / Cadmium with OD Chromate ZNU Aluminum / Zinc- Nickel with Black Chromate MT Aluminum / Nickel-PTFE Z1 Stainless Steel / Passivated | See Cont.<br>Arr. Page<br>D-4<br>Consult<br>Factory for<br>Combo Arr. | P<br>Metal<br>Protective<br>Covers<br>Included<br>N<br>No Covers<br>Supplied | N<br>Normal<br>X<br>Pos. X<br>Y<br>Pos. Y<br>Z<br>Pos. Z<br>See page<br>D-7 | Overall<br>Length In<br>Inches<br>12 Inch<br>Min. |  |  |  |  |

|                    | Series 800 Cordsets with #20HD Contacts |                  |               |      |                    |             |            |           |           |  |
|--------------------|---|------------------|---------------|------|--------------------|-------------|------------|-----------|-----------|--|
| Sample Part Number |   |                  |               |      |                    |             |            |           |           |  |
| 800-041            | -A                                      | С                | K             | 0    | M                  | 8-28        | N          | X         | -36       |  |
|                    | End A                                   | End B            |               | Wire | Shell Material /   |             | Protective | Shell Key |           |  |
| Series             | Connector                               | Connector        | Plug Style    | Size | Finish             | Insert Arr. | Cover      | Pos.      | Length    |  |
| 800-041            | -A                                      | A                | K             | 0    | M                  | See Cont.   | P          | N         | Overall   |  |
| Style 1            | Plug, with Male                         | Plug, with Male  | Round Knurled | #20  | Aluminum /         | Arr. page   | Metal      | Normal    | Length    |  |
| Polyurethane       | Pin Contacts                            | Pin Contacts     | Coupling Nut  | AWG  | Electroless Nickel | D-4         | Protective | X         | In Inches |  |
| Cable Jacket,      | -В                                      | В                | KL            | 2    | NF                 |             | Covers     | Pos. X    | 12 Inch   |  |
| Polyamide          | Plug, with                              | Plug, with       | Round Knurled | #22  | Aluminum /         | Consult     | Included   | Υ         | Min.      |  |
| Overmold,          | Female Socket                           | Female Socket    | Coupling Nut, | AWG  | Cadmium with       | Factory for | N          | Pos. Y    |           |  |
| #20HD              | Contacts                                | Contacts         | Self-Locking  |      | OD Chromate        | Combo Arr.  | No Covers  | Z         |           |  |
| Contacts           | -C                                      | C                | H             |      | ZNU                |             | Supplied   | Pos. Z    |           |  |
| 800-057            | Receptacle,                             | Receptacle,      | Hex Coupling  |      | Aluminum / Zinc-   |             |            |           |           |  |
| Style 2            | with Male Pin                           | with Male Pin    | Nut           |      | Nickel with Black  |             |            | See page  |           |  |
| Rubber             | Contacts                                | Contacts         | HL            |      | Chromate           |             |            | D-7       |           |  |
| Cable Jacket       | -D                                      | D                | Hex Coupling  |      | MT                 |             |            |           |           |  |
| and Rubber         | Receptacle, with                        | Receptacle, with | Nut, Self-    |      | Aluminum /         |             |            |           |           |  |
| Overmold,          | Female Socket                           | Female Socket    | Locking       |      | Nickel-PTFE        |             |            |           |           |  |
|                    | Contacts                                | Contacts         | N             |      | <b>Z</b> 1         |             |            |           |           |  |
|                    |   | N                | Receptacle    |      | Stainless Steel /  |             |            |           |           |  |
|                    |   | No Connector     | Cable         |      | Passivated         |             |            |           |           |  |
|                    |   | (Single-Ended)   |               |      |                    |             |            |           |           |  |



# SERIES 800 UN THREAD MATING Mighty Mouse Connectors and Cables Glenair.



## Series 800 Mighty Mouse **Overmolded Cordsets**

|               | Series 800 Cordsets with #16 Power Contacts |                                |               |              |                           |                |                     |                |         |  |  |
|---------------|---|--------------------------------|---------------|--------------|---------------------------|----------------|---------------------|----------------|---------|--|--|
|               | Sample Part Number                          |                                |               |              |                           |                |                     |                |         |  |  |
| 800-038       | -A C K 6 M 8-2 N                            |                                |               |              |                           |                | N                   | X              | -36     |  |  |
| Series        | End A<br>Connector                          | End B<br>Connector             | Plug Style    | Wire<br>Size | Shell Material/<br>Finish | Insert<br>Arr. | Protective<br>Cover | Shell Key Pos. | Length  |  |  |
| 800-038       | -A  | A                              | K             | 6            | M                         | See Cont.      | P                   | N              | Overall |  |  |
| Style 1       | Plug, with Male                             | Plug, with Male                | Round Knurled | #16          | Aluminum /                | Arr. Page      | Metal               | Normal         | Length  |  |  |
| Polyurethane  | Pin Contacts                                | Pin Contacts                   | Coupling Nut  | AWG          | Electroless Nickel        | D-4            | Protective          | X              | In      |  |  |
| Cable Jacket, | -B  | В                              | KL            | 8            | NF                        |                | Covers              | Pos. X         | Inches  |  |  |
| Polyamide     | Plug, with                                  | Plug, with                     | Round Knurled | #18          | Aluminum /                | Consult        | Included            | Υ              |         |  |  |
| Overmold, #16 | Female Socket                               | Female Socket                  | Coupling Nut, | AWG          | Cadmium with              | Factory        | N                   | Pos. Y         | 12 Inch |  |  |
| Contacts      | Contacts                                    | Contacts                       | Self-Locking  |              | OD Chromate               | for            | No Covers           | Z              | Min.    |  |  |
| 800-058       | -C  | C                              | H             |              | ZNU                       | Combo          | Supplied            | Pos. Z         |         |  |  |
| Style 2       | Receptacle,                                 | Receptacle,                    | Hex Coupling  |              | Aluminum / Zinc-          | Arr.           |                     |                |         |  |  |
| Rubber        | with Male Pin                               | with Male Pin                  | Nut           |              | Nickel with Black         |                |                     | See page D-7   |         |  |  |
| Cable Jacket  | Contacts                                    | Contacts                       | HL            |              | Chromate                  |                |                     |                |         |  |  |
| and Rubber    | -D  | D                              | Hex Coupling  |              | MT                        |                |                     |                |         |  |  |
| Overmold, #16 | Receptacle,                                 | Receptacle, with               | Nut, Self-    |              | Aluminum /                |                |                     |                |         |  |  |
| Contacts      | with Female                                 | Female Socket                  | Locking       |              | Nickel-PTFE               |                |                     |                |         |  |  |
|               | <b>Socket Contacts</b>                      | Contacts                       | N             |              | <b>Z</b> 1                |                |                     |                |         |  |  |
|               |   | N                              | Receptacle    |              | Stainless Steel /         |                |                     |                |         |  |  |
|               |   | No Connector<br>(Single-Ended) | Cable         |              | Passivated                |                |                     |                |         |  |  |
|               |   |                                |               |              |                           |                |                     |                |         |  |  |

|               | Series 800 Cordsets with #12 Power Contacts |                                |               |              |                            |                |                     |                |           |  |  |  |
|---------------|---|--------------------------------|---------------|--------------|----------------------------|----------------|---------------------|----------------|-----------|--|--|--|
|               | Sample Part Number                          |                                |               |              |                            |                |                     |                |           |  |  |  |
| 800-039       | -A C K 2 M 8-2 N                            |                                |               |              |                            |                |                     | X              | -36       |  |  |  |
| Series        | End A<br>Connector                          | End B<br>Connector             | Plug Style    | Wire<br>Size | Shell Material /<br>Finish | Insert<br>Arr. | Protective<br>Cover | Shell Key Pos. | Length    |  |  |  |
| 800-039       | -A  | Α                              | K             | 2            | M                          | See Cont.      | P                   | N              | Overall   |  |  |  |
| Style 1       | Plug, with Male                             | Plug, with Male                | Round Knurled | #12          | Aluminum /                 | Arr. Page      | Metal               | Normal         | Length    |  |  |  |
| Polyurethane  | Pin Contacts                                | Pin Contacts                   | Coupling Nut  | AWG          | Electroless Nickel         | D-4            | Protective          | X              | In Inches |  |  |  |
| Cable Jacket, | -В  | В                              | KL            | 4            | NF                         |                | Covers              | Pos. X         |           |  |  |  |
| Polyamide     | Plug, with                                  | Plug, with                     | Round Knurled | #14          | Aluminum /                 | Consult        | Included            | Y              | 12 Inch   |  |  |  |
| Overmold, #12 | Female Socket                               | Female Socket                  | Coupling Nut, | AWG          | Cadmium with               | Factory        | N                   | Pos. Y         | Min.      |  |  |  |
| Contacts      | Contacts                                    | Contacts                       | Self-Locking  |              | OD Chromate                | for            | No Covers           | Z              |           |  |  |  |
| 800-059       | -C  | C                              | H             |              | ZNU                        | Combo          | Supplied            | Pos. Z         |           |  |  |  |
| Style 2       | Receptacle,                                 | Receptacle,                    | Hex Coupling  |              | Aluminum / Zinc-           | Arr.           |                     |                |           |  |  |  |
| Rubber        | with Male Pin                               | with Male Pin                  | Nut           |              | Nickel with Black          |                |                     | See page D-7   |           |  |  |  |
| Cable Jacket  | Contacts                                    | Contacts                       | HL            |              | Chromate                   |                |                     |                |           |  |  |  |
| and Rubber    | -D  | D                              | Hex Coupling  |              | MT                         |                |                     |                |           |  |  |  |
| Overmold, #12 | Receptacle,                                 | Receptacle, with               | Nut, Self-    |              | Aluminum /                 |                |                     |                |           |  |  |  |
| Contacts      | with Female                                 | Female Socket                  | Locking       |              | Nickel-PTFE                |                |                     |                |           |  |  |  |
|               | Socket                                      | Contacts                       | N             |              | <b>Z1</b>                  |                |                     |                |           |  |  |  |
|               | Contacts                                    | N                              | Receptacle    |              | Stainless Steel /          |                |                     |                |           |  |  |  |
|               |   | No Connector<br>(Single-Ended) | Cable         |              | Passivated                 |                |                     |                |           |  |  |  |



# SERIES 800 UN THREAD MATING Mighty Mouse Connectors and Cables



### Flexible, Lightweight Phantom Cable Cordsets



Phantom Cable cordsets feature high-flex rubber-insulated wires, lightweight shield, and overbraided jackets for maximum flexibility, reduced size and minimum weight. Flexible rubber overmold provides strain relief and environmental sealing. Available for all Mighty Mouse layouts with size #23 contacts, these cordsets are available with #24 through #28 AWG wire. EMI shield options include high-strength, ultralightweight **AmberStrand**, nickel-coated composite braid **ArmorLite** or lightweight, highly flexibible tinned copper braid. Braid outer jackets are available with **NOMEX**®, **HALAR**®, or PTFE-coated fiberglass.

#### **Product Features**

- Overbraided cable jacket for excellent flexibility
- Ultra-lightweight AmberStrand® EMI shield
- 100% electrically tested
- Flexible to -55°C.
- Stainless steel shield termination band

#### **Application Note**

Overbraided textile jackets are ideal for applications where flexibility and weight are important. However, water can penetrate through the jacket and cable shield. Dust and contamination can also become entrapped in the braid. Braided jackets are prone to fraying damage caused by snagging on velcro closures and MOLLE vests. Extruded cable jackets are recommended if debris entrapment, moisture ingress, or fraying damage are concerns.

| Braid Shield Selection Guide  |   |  |                   |  |  |  |  |  |  |
|-------------------------------|---|--|-------------------|--|--|--|--|--|--|
| Property                      | AmberStrand®                                | ArmorLite®                                       | Copper            |  |  |  |  |  |  |
| Туре                          | nickel-coated high-<br>strength super fiber | Micro-filament nickel-<br>coated stainless steel | Tin-coated copper |  |  |  |  |  |  |
| Weight/ft. (0.5 in. ID)       | 3.7 grams                                   | 4.4 grams  | 22.3 grams        |  |  |  |  |  |  |
| Operating Temp <sup>(1)</sup> | -65° C to +200° C                           | -80° C to +260° C -80° C to +150° C              |                   |  |  |  |  |  |  |
| Coverage                      | 90% min.                                    | 90% min.   | 90% min.          |  |  |  |  |  |  |
| Flexibility                   | Excellent                                   | Excellent  | Good              |  |  |  |  |  |  |
| Cost Comparison               | \$\$\$                                      | \$\$   | \$                |  |  |  |  |  |  |
| (1) Rubbe                     | er wires and rubber overn                   | nold are rated for -55 <b>º</b> C to             | +135 <b>°</b> C.  |  |  |  |  |  |  |

|                               | Jacket Selection Guide            |                              |                        |  |  |  |  |  |  |  |
|-------------------------------|-----------------------------------|------------------------------|------------------------|--|--|--|--|--|--|--|
| Property                      | NOMEX®                            | HALAR®                       | PTFE Coated Fiberglass |  |  |  |  |  |  |  |
| Color                         | Black or olive drab               | Black                        | Tan                    |  |  |  |  |  |  |  |
| Operating Temp <sup>(1)</sup> | -55° C to +260° C                 | -73° C to +150° C            | -75° C to +300° C      |  |  |  |  |  |  |  |
| Chemical Resistance           | Excellent                         | Excellent                    | Excellent              |  |  |  |  |  |  |  |
| Flammability                  | Self-extinguishing, will not melt | Fire retardant<br>UL VW-1    | Self-extinguishing     |  |  |  |  |  |  |  |
| Toxicity                      | Non-toxic                         | Non-toxic                    | Non-toxic              |  |  |  |  |  |  |  |
| Flexibility                   | Excellent                         | Excellent                    | Excellent              |  |  |  |  |  |  |  |
| Abrasion resistance           | Excellent                         | Excellent                    | Excellent              |  |  |  |  |  |  |  |
| (1) Rubbo                     | er wires and rubber overn         | nold are rated for -55° C to | > +135 <b>°</b> C.     |  |  |  |  |  |  |  |

| Specifications          |   |  |  |  |  |  |
|-------------------------|---|--|--|--|--|--|
| Cable jacket            | NOMEX®, HALAR® or PTFE-coated fiberglass                        |  |  |  |  |  |
| Temperature Range       | -55° C to +135° C   |  |  |  |  |  |
| Overmold                | Thermoplastic elastomer, black                                  |  |  |  |  |  |
| Cable shield            | AmberStrand®, ArmorLite® or tinned copper, 90% minimum coverage |  |  |  |  |  |
| Conductors              | Silver coated stranded wire, rubber insulation                  |  |  |  |  |  |
| Shield Termination      | Band-Master™ ATS stainless steel shield termination band        |  |  |  |  |  |
| Current rating          | 5 amps  |  |  |  |  |  |
| Test voltage (DWV)      | 500 Vac   |  |  |  |  |  |
| Insulation resistance   | 200 Megohms minimum   |  |  |  |  |  |
| Shielding effectiveness | 50 dB minimum from 100MHz to 1000MHz.                           |  |  |  |  |  |



#### SERIES 800 UN THREAD MATING

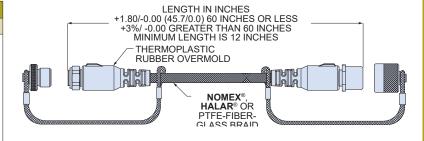
## Mighty Mouse Connectors and Cables



## Flexible, Lightweight Phantom Cable Cordsets

| End A   Connector   Connector   Wire Size   Shell Material   Insert   Arr.   Cover   Shell Key Pos.   Length   Option    |          |               | Serie         | s 800 "Pha | antom Cable" ( | Cordsets s | ize #12 thru | #23 Contacts   |         |             |           |
|--|----------|---------------|---------------|------------|----------------|------------|--------------|----------------|---------|-------------|-----------|
| Series   Connector   Contacts   |          |               |               |            | Sample         | Part Numb  | er           |                |         |             |           |
| Series   Connector   Connector   Wire Size   Finish   Arr.   Cover   Shell Key Pos.   Length   Option   Optio   | 800-053  | -B            | N             | 0          | <b>Z</b> 1     | 5-3        | N            | X              | -60     | C           | N         |
| Size #23   -A   Plug, with   Male Pin   Contacts   Plug, with   Plug, w   |          | End A         | End B         |            |                | Insert     | Protective   |                |         | Shield      | Jacket    |
| Contacts 800-052 Phantom Cable Cordset #20 HD Contacts 800-053 Phantom Contacts Contacts  Pemale Socket #20 HD Contacts Rec. with Male Pin Contacts Rec. with Male Pin Contacts Size #12 Contacts  Size #16 Cordset  Size #12 Contacts  Size #12 Contacts  Size #16 Cordset  Size #12 Contacts  Size #16 Contacts  Size #16 Contacts Size #12 Contacts  Size #12 Contacts  Size #16 Contacts Size #12 Contacts  Size #16 Contacts Size #16 Contacts Size #16 Contacts Size #16 Contacts Size #16 Contacts Size #12 Contacts Contacts Contacts  Size #16 Contacts Size #18 Contacts Siz | Series   | Connector     | Connector     | Wire Size  | Finish         | Arr.       | Cover        | Shell Key Pos. | Length  | Option      | Option    |
| Bable   Pin   Contacts   Contacts   Phantom   Cable   Cordset   Personal Contacts   Plug, with   Personale Socket   Paul Pin Contacts   Plug, with   Personale Socket   Plug, with   Personale Socket   Pontacts   Pin Contacts   Pin   | Size #23 |               |               | Size #23   | 1              | See Cont.  | -            |                | Overall |             | N         |
| Phantom Cable Cordset  -B -B Plug, with Female Socket #20 HD Contacts 800-053 Phantom Cable Cordset  -C Cordset  -C Rec. with Male Cable Cordset  -B Pin Contacts 800-054 Phantom Cable Cordset  -C Contacts 800-055 Phantom Cable Cordset  -B Rec. with Male Contacts Rec. with Male Contacts Rec. with Male Contacts Rec. with Male Contacts Rec. with Female Socket Contacts Rec. with Rec. wi |          | J,            | J,            |            |                | -          |              | Normal         | Length  | AmberStrand | Nomex     |
| Cable Cordset B B Plug, with Female Socket Contacts 800-053 Phantom Cable Cordset B Cordset Cordset Cordset Cordset Cordset Cordset S Size #16 Contacts S Cordset Cordset Cordset Cordset Cordset S Size #12 Cordset Cordset Cordset Cordset S Size #12 Cordset S Size #12 Cordset Cordset Cordset S Size #12 Size Size Size Size Size Size Size Size  |          |               |               | -          |                | D-4        |              |                | ***     |             |           |
| Cordset  Plug, with Female Socket #20 HD Contacts 800-053 Phantom Cable Cordset  Size #16 Contacts 800-054 Phantom Cable Cordset  Size #12 Cordset  Size #16 Contacts Contacts  NT Aluminum / Nickel-PTFE  Z1 Stainless Steel / Passivated   |          | Contacts      | Contacts      |            | Nickel         |            |              |                |         | _           |           |
| Plug, with   Female Socket     |          | _             |               | -          |                |            | Included     | Pos. X         |         | ArmorLite   |           |
| Size #20 HD   Contacts   Female Socket #20 HD   Contacts   Contacts   Female Socket #20 HD   Contacts   Female Socket #20 HD   Contacts   Female Socket #20 HD   Contacts   Female Socket #20 AWG   Fin Contacts   Female Socket   Female Socket   Female Socket Contacts   Female Socket   Female    | Cordset  | _             | _             | #24 AWG    |                | ,          |              |                | Min.    |             | (Monofil) |
| #20 HD Contacts  Cordset  Cordset  Cordset  Cordset  Contacts  Cordset  Cordset  Cordset  Contacts  Cordset  Cordset  Contacts  Copper  Peek (Montacts  Copper  Pos. Z  Pos. Z  Pos. Z  See Table II  Contacts  MT  Aluminum /  Nickel-PTFE  Nickel-PTFE  Stainless Steel  Passivated  Contacts  Copper  Peek (Montacts  Copper  Pos. Z  Pos. Z  Pos. Z  Pos. Z  Pos. Z  Pos. Z  See Table II  Contacts  Copper  Peek (Montacts  Copper  Peek (Montacts  In Contacts  See Table II  Contacts  Contacts  Contacts  Contacts  Size #16  Contacts  N  Nickel-PTFE  Stainless Steel  Passivated  Contacts  Copper  Cop | C:       | J,            | J             | C:         |                |            | 1            | =              |         | _           |           |
| Contacts 800-053 Phantom Cable Cordset  Size #16 Contacts 800-054 Phantom Cable Cordset  Cordset  Size #12 Contacts 800-055 Phantom Cable Cordset  Size #12 Contacts 800-055 Phantom Cable Cordset  Size #12 Contacts 800-055 Phantom Cable Cordset  Contacts  Contacts  Contacts 0 Rec. with Male #20 AWG Pin Contacts #22 AWG Size #16 Contacts  Contacts  Contacts  Bull  Contacts  Contacts  Contacts  Contacts  Contacts  Contacts  Contacts  Bull  Contacts  Contacts  Contacts  Contacts  Contacts  Bull  Contacts  Contacts  Contacts  Contacts  Contacts  Bull  Contacts  Contacts  Contacts  Contacts  Bull  Contacts  Contact |          |               |               |            |                |            |              | POS. Y         |         |             | -         |
| Phantom Cable Cordset  Size #16 Contacts 800-054 Phantom Cable Cordset  Size #12 Contacts 800-055 Phantom  Size #12 Contacts 800-055 Phantom  Phantom Cable Cordset  Size #12 Contacts 800-055 Phantom  Phantom Cable Cordset  Cords |          | Contacts      | Contacts      |            | OD Chiomate    | AII.       | Supplied     | 7              |         | Сорреі      | (Monofil) |
| Phantom Cable Cordset  Size #16 Contacts 800-054 Phantom Cable Cordset  N No Connector Cordset  Size #12 Contacts 800-055 Phantom  Size #12 Contacts 800-055 Phantom  Rec. with Male Pin Contacts #20 AWG 2   Aluminum / Zinc-Nickel with Black Cohromate Contacts #16 AWG 8   #16 AWG No Connector (Single- Ended)  Size #12 Contacts  #18 AWG    Size #12 Contacts   Size #12 Contacts   Size #12 Contacts   Phantom   Cable   Contacts   C |          | -C            | c             |            | 7NII           |            |              |                |         |             | (MOHOH)   |
| Cable Cordset  Size #16 Contacts 800-054 Phantom Cable Cordset  Cordset  N No Connector (Single-Contacts 800-055 Phantom  Pin Contacts Pin Contacts  Pin Contacts  #22 AWG Size #16 Contacts  Rec. with Female Socket Contacts  N No Connector (Single-Ended)  Size #12 Contacts  Pin Contacts  #22 AWG With Black Chromate  MT Aluminum / Nickel-PTFE  #18 AWG  Size #12 Contacts  #16 AWG No Connector (Single-Ended)  Size #12 Contacts  #18 AWG  Pin Contacts  #16 AWG  #18 AWG  Pin Contacts  Size #16 Contacts  #18 AWG  Pin Contacts  #16 AWG  #18 AWG  Pin Contacts  #18 AWG  Pin Cont |          | _             | _             | _          |                |            |              | 1 03. 2        |         |             |           |
| Cordset  Size #16 Contacts 800-054 Phantom Cable Cordset  Size #12 Contacts 800-055 Phantom  Cordset  Size #16 Contacts  Bec. with Female Socket Contacts  N N No Connector (Single- Ended)  Ended)  Size #16 Contacts  #22 AWG Size #16 Corhomate  MT Aluminum / Nickel-PTFE  #18 AWG  Size #12 Contacts  #21 AWG  With Black Chromate  Aluminum / Nickel-PTFE  #18 AWG  Passivated  Size #12 Contacts  #22 AWG  Passivated   |          |               |               |            | '              |            |              | See Table II   |         |             |           |
| Contacts 800-054 Phantom Cable Cordset  Size #12 Contacts 800-055 Phantom  Rec. with Female Socket Contacts Female Socket Female Socket Contacts Female Socket Contacts Female Socket Female Socket Contacts Female Socket Contacts Female Socket Female Soc |          |               |               | #22 AWG    | with Black     |            |              |                |         |             |           |
| Contacts 800-054 Phantom Cable Cordset  Size #12 Contacts 800-055 Phantom  Cable Cordset  N No Connector (Single- Ended)  Size #12 Contacts  No Contacts  Size #12 Contacts  No Contacts  No Contacts  Ended)  Contacts  MT Aluminum / Nickel-PTFE  Z1 Stainless Steel / Passivated  Passivated  | Size #16 | -D            | D             | Size #16   | Chromate       |            |              |                |         |             |           |
| Phantom Cable Cordset  N N No Connector (Single-Contacts 800-055 Phantom  Cable Contacts #16 AWG 8 Nickel-PTFE  #18 AWG Z1  Size #12 Contacts #18 AWG Z1  Size #12 Contacts #12 Aluminum / Nickel-PTFE  #18 AWG Z1  Stainless Steel / Passivated   |          | Rec. with     | Rec. with     |            |                |            |              |                |         |             |           |
| Cable Cordset  N No Connector (Single- Contacts 800-055 Phantom  Nickel-PTFE  Nickel-PTFE  Nickel-PTFE  Size #12 Contacts  8 Nickel-PTFE  Stainless Steel / Passivated   |          | Female Socket | Female Socket |            | MT             |            |              |                |         |             |           |
| Cordset  N No Connector (Single- Contacts 800-055 Phantom  N H18 AWG No Connector (Single- Contacts (Single- Contacts 418 AWG  #18 AWG  #18 AWG  Available of the contact o | Phantom  | Contacts      | Contacts      | #16 AWG    | Aluminum /     |            |              |                |         |             |           |
| Size #12 (Single- Size #12 Contacts 800-055 Phantom  | Cable    |               |               | 8          | Nickel-PTFE    |            |              |                |         |             |           |
| Size #12 (Single- Ended) Size #12 (Contacts 800-055 Phantom Size #12 AWG   | Cordset  |               |               | #18 AWG    |                |            |              |                |         |             |           |
| Contacts 800-055 Phantom Ended) Contacts 2 #12 AWG   |          |               |               |            | ] — -          |            |              |                |         |             |           |
| 800-055 Phantom #12 AWG  |          |               | '             |            |                |            |              |                |         |             |           |
| Phantom #12 AWG  |          |               | Ended)        |            | / Passivated   |            |              |                |         |             |           |
|  |          |               |               | _          |                |            |              |                |         |             |           |
| (able  |          |               |               | _          |                |            |              |                |         |             |           |
|  |          |               |               | -          |                |            |              |                |         |             |           |
| Cordset #14 AWG  | Cordset  |               |               | #14 AWG    |                |            |              |                |         |             |           |

| Table II: Shell Key Positions (See Note 1 and 2) |                      |
|--|----------------------|
| Shell Size 5 and 6                               | Shell Size 7 thru 12 |
| NORMAL<br>X°<br>Z°                               | 60° X° NORMAL        |
| Key Position                                     | Key Rotation         |
| N Normal   | 150°                 |
| X  | 140°                 |
| Υ  | 130°                 |
| Z  | 120°                 |
|  |                      |



#### **NOTES**

- Shell sizes 5 thru 6: master key is located at top dead center (TDC) for normal (N) position.
- 2. Shell size 7 thru 12: master key is rotated 90° from TDC for normal position Double-ended cordsets are wired pin #1 to pin #1, #2 to #2, and so on.
- 3. Wires are silver-coated stranded copper with TPE insulation, 600V, UL VW-1 rated.
- Wires are white with color stripe per MIL-STD-681. Wire #1 is WHT/BLK, wire #2 is WHT/BRN, etc.