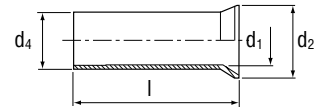


# Ferrule Selection Guide

## Uninsulated Wire Ferrules

### Approvals:

Click for approval documents



### Material:

Tin-plated copper

### Temperature rating:

Up to 120°C

### Environmental:

RoHS and REACH compliant

Dimensions are in mm
















| Style   | Part Number | Cable                        | DIN* Color | Insulated | $d_1$ | $d_2$ | $d_4$ | $l$  |
|---|-------------|------------------------------|------------|-----------|-------|-------|-------|------|
|    | 82031010    | 0.5mm <sup>2</sup><br>20AWG  | none       | no        | 1.0   | 2.1   | 1.3   | 6.0  |
|    | 82031040    | 0.75mm <sup>2</sup><br>18AWG | none       | no        | 1.2   | 2.3   | 1.5   | 10.0 |
|    | 82031070    | 1.0mm <sup>2</sup><br>17AWG  | none       | no        | 1.4   | 2.5   | 1.7   | 6.0  |
|    | 82031080    | 1.0mm <sup>2</sup><br>17AWG  | none       | no        | 1.4   | 2.5   | 1.7   | 10.0 |
|  | 82031540    | 1.5mm <sup>2</sup><br>16AWG  | none       | no        | 1.7   | 2.8   | 2.0   | 6.0  |
|  | 82031110    | 1.5mm <sup>2</sup><br>16AWG  | none       | no        | 1.7   | 2.8   | 2.0   | 10.0 |
|  | 82031120    | 1.5mm <sup>2</sup><br>16AWG  | none       | no        | 1.7   | 2.8   | 2.0   | 12.0 |
|  | 82031150    | 2.5mm <sup>2</sup><br>14AWG  | none       | no        | 2.2   | 3.4   | 2.5   | 7.0  |
|  | 82031160    | 2.5mm <sup>2</sup><br>14AWG  | none       | no        | 2.2   | 3.4   | 2.5   | 12.0 |
|  | 82031190    | 4.0mm <sup>2</sup><br>12AWG  | none       | no        | 2.8   | 4.0   | 3.2   | 12.0 |
|  | 82031200    | 4.0mm <sup>2</sup><br>12AWG  | none       | no        | 2.8   | 4.0   | 3.2   | 18.0 |
|  | 82031230    | 6.0mm <sup>2</sup><br>10AWG  | none       | no        | 3.5   | 4.7   | 3.9   | 12.0 |
|  | 82031240    | 6.0mm <sup>2</sup><br>10AWG  | none       | no        | 3.5   | 4.7   | 3.9   | 18.0 |
|  | 82031270    | 10.0mm <sup>2</sup><br>8AWG  | none       | no        | 4.5   | 5.8   | 4.9   | 15.0 |
|  | 82031280    | 10.0mm <sup>2</sup><br>8AWG  | none       | no        | 4.5   | 5.8   | 4.9   | 20.0 |

Chart continued on next page

\* DIN stands for Deutsches Institut für Normung: Color coding arranged according to DIN 46228 Teil 4.

Rev 3-18



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## Uninsulated Wire Ferrules Continued



Dimensions are in mm

| Style | Part Number | Cable                       | DIN* Color | Insulated | $d_1$ | $d_2$ | $d_4$ | $l$  |
|-------|-------------|-----------------------------|------------|-----------|-------|-------|-------|------|
|       | 82031310    | 16.0mm <sup>2</sup><br>6AWG | none       | no        | 5.8   | 7.5   | 6.2   | 18.0 |
|       | 82031320    | 16.0mm <sup>2</sup><br>6AWG | none       | no        | 5.8   | 7.5   | 6.2   | 25.0 |
|       | 82031350    | 25.0mm <sup>2</sup><br>4AWG | none       | no        | 7.3   | 9.5   | 7.7   | 18.0 |
|       | 82031360    | 25.0mm <sup>2</sup><br>4AWG | none       | no        | 7.3   | 9.5   | 7.7   | 25.0 |
|       | 82031390    | 35.0mm <sup>2</sup><br>2AWG | none       | no        | 8.3   | 11.0  | 8.7   | 18.0 |
|       | 82031400    | 35.0mm <sup>2</sup><br>2AWG | none       | no        | 8.3   | 11.0  | 8.7   | 25.0 |

## Insulated Wire Ferrules

### Approvals:

Click for approval documents

### Barrel material:

Tin-plated copper

### Insulation:

Polypropylene-fluoropolymer

### Temperature rating:

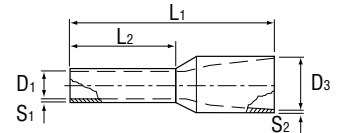
-5°C to 105°C

### Flammability:

UL 94HB

### Environmental:

RoHS and REACH compliant



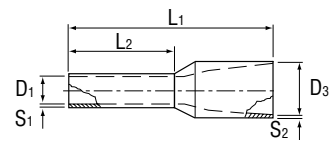
Dimensions are in mm

| Style | Part Number | Cable                        | DIN* Color | Insulated | $L_1$ | $L_2$ | $D_1$ | $S_1$ | $D_3$ | $S_2$ |
|-------|-------------|------------------------------|------------|-----------|-------|-------|-------|-------|-------|-------|
|       | 82031020    | 0.5mm <sup>2</sup><br>20AWG  | white      | yes       | 14.0  | 8.0   | 1.0   | 0.15  | 2.6   | 0.25  |
|       | 82031030    | 0.5mm <sup>2</sup><br>20AWG  | white      | yes       | 16.0  | 10.0  | 1.0   | 0.15  | 2.6   | 0.25  |
|       | 82031050    | 0.75mm <sup>2</sup><br>18AWG | gray       | yes       | 14.0  | 8.0   | 1.2   | 0.15  | 2.8   | 0.25  |
|       | 82031060    | 0.75mm <sup>2</sup><br>18AWG | gray       | yes       | 16.0  | 10.0  | 1.2   | 0.15  | 2.8   | 0.25  |
|       | 82031090    | 1.0mm <sup>2</sup><br>17AWG  | red        | yes       | 14.0  | 8.0   | 1.4   | 0.15  | 3.0   | 0.25  |
|       | 82031100    | 1.0mm <sup>2</sup><br>17AWG  | red        | yes       | 16.0  | 10.0  | 1.4   | 0.15  | 3.0   | 0.25  |

Chart continued on next page

\* DIN stands for Deutsches Institut für Normung: Color coding arranged according to DIN 46228 Teil 4.

## Insulated Wire Ferrules Continued



Dimensions are in mm

| Style | Part Number | Cable                         | DIN* Color | Insulated | L <sub>1</sub> | L <sub>2</sub> | D <sub>1</sub> | S <sub>1</sub> | D <sub>3</sub> | S <sub>2</sub> |
|-------|-------------|-------------------------------|------------|-----------|----------------|----------------|----------------|----------------|----------------|----------------|
|       | 82031130    | 1.5mm <sup>2</sup><br>16AWG   | black      | yes       | 14.0           | 8.0            | 1.7            | 0.15           | 3.5            | 0.25           |
|       | 82031140    | 1.5mm <sup>2</sup><br>16AWG   | black      | yes       | 16.0           | 10.0           | 1.7            | 0.15           | 3.5            | 0.25           |
|       | 82031170    | 2.5mm <sup>2</sup><br>14AWG   | blue       | yes       | 15.0           | 8.0            | 2.2            | 0.15           | 4.2            | 0.25           |
|       | 82031180    | 2.5mm <sup>2</sup><br>14AWG   | blue       | yes       | 19.0           | 12.0           | 2.2            | 0.15           | 4.2            | 0.25           |
|       | 82031210    | 4.0mm <sup>2</sup><br>12AWG   | gray       | yes       | 18.0           | 10.0           | 2.8            | 0.20           | 4.8            | 0.30           |
|       | 82031220    | 4.0mm <sup>2</sup><br>12AWG   | gray       | yes       | 20.0           | 12.0           | 2.8            | 0.20           | 4.8            | 0.30           |
|       | 82031250    | 6.0mm <sup>2</sup><br>10AWG   | yellow     | yes       | 20.0           | 12.0           | 3.5            | 0.20           | 6.3            | 0.30           |
|       | 82031260    | 6.0mm <sup>2</sup><br>10AWG   | yellow     | yes       | 26.0           | 18.0           | 3.5            | 0.20           | 6.3            | 0.30           |
|       | 82031290    | 10.0mm <sup>2</sup><br>8AWG   | red        | yes       | 22.0           | 12.0           | 4.5            | 0.20           | 7.6            | 0.40           |
|       | 82031300    | 10.0 mm <sup>2</sup><br>8 AWG | red        | yes       | 27.0           | 18.0           | 4.5            | 0.20           | 7.6            | 0.40           |
|       | 82031330    | 16.0mm <sup>2</sup><br>6AWG   | blue       | yes       | 22.0           | 12.0           | 5.8            | 0.20           | 8.8            | 0.40           |
|       | 82031340    | 16.0mm <sup>2</sup><br>6AWG   | blue       | yes       | 29.0           | 18.0           | 5.8            | 0.20           | 8.8            | 0.40           |
|       | 82031370    | 25.0mm <sup>2</sup><br>4AWG   | yellow     | yes       | 29.0           | 16.0           | 7.3            | 0.20           | 11.2           | 0.40           |
|       | 82031380    | 25.0mm <sup>2</sup><br>4AWG   | yellow     | yes       | 36.0           | 22.0           | 7.3            | 0.20           | 11.2           | 0.50           |
|       | 82031410    | 35.0mm <sup>2</sup><br>2AWG   | red        | yes       | 30.0           | 16.0           | 8.3            | 0.20           | 12.7           | 0.55           |
|       | 82031420    | 35.0mm <sup>2</sup><br>2AWG   | red        | yes       | 39.0           | 25.0           | 8.3            | 0.20           | 12.7           | 0.55           |
|       | 82031430    | 50.0mm <sup>2</sup><br>1AWG   | blue       | yes       | 36.0           | 20.0           | 10.3           | 0.35           | 15.0           | 0.50           |

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# Double-Wire Ferrules

## Approvals:

Click for approval documents

## Barrel material:

Tin-plated copper

## Insulation:

Polypropylene-fluoropolymer

## Temperature rating:

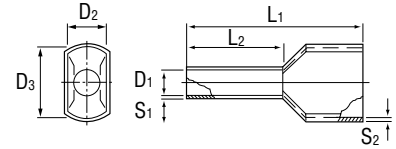
-5°C to 105°C

## Flammability:

UL 94HB











## Environmental:

RoHS and REACH compliant




**Note:** The ferrules below are considered "double-wire" ferrules. They are sized to accommodate two conductors in one end sleeve, which enables quick and easy potential loops.

Dimensions are in mm

| Style   | Part Number | Cable                            | DIN* Color | Insulated | L <sub>1</sub> | L <sub>2</sub> | D <sub>1</sub> | S <sub>1</sub> | D <sub>3</sub> | D <sub>2</sub> | S <sub>2</sub> |
|---|-------------|----------------------------------|------------|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|    | 82031440    | 2x0.5mm <sup>2</sup><br>2x20AWG  | white      | yes       | 14.0           | 8.0            | 1.4            | 0.15           | 5.0            | 3.0            | 0.30           |
|    | 82031450    | 2x0.75mm <sup>2</sup><br>2x18AWG | gray       | yes       | 14.0           | 8.0            | 1.7            | 0.15           | 5.5            | 3.0            | 0.30           |
|    | 82031460    | 2x1.0mm <sup>2</sup><br>2x17AWG  | red        | yes       | 15.0           | 8.0            | 2.0            | 0.15           | 5.8            | 3.2            | 0.30           |
|    | 82031470    | 2x1.5mm <sup>2</sup><br>2x16AWG  | black      | yes       | 16.0           | 8.0            | 2.2            | 0.15           | 6.5            | 3.6            | 0.30           |
|    | 82031530    | 2x2.5mm <sup>2</sup><br>2x14AWG  | blue       | yes       | 21.5           | 13.0           | 2.9            | 0.15           | 7.5            | 4.0            | 0.30           |
|   | 82031480    | 2x2.5mm <sup>2</sup><br>2x14AWG  | blue       | yes       | 19.0           | 10.0           | 2.8            | 0.15           | 8.0            | 4.5            | 0.40           |
|  | 82031490    | 2x4.0mm <sup>2</sup><br>2x12AWG  | gray       | yes       | 22.0           | 12.0           | 3.5            | 0.20           | 9.0            | 5.2            | 0.50           |
|  | 82031500    | 2x6.0mm <sup>2</sup><br>2x10AWG  | yellow     | yes       | 23.0           | 12.0           | 4.5            | 0.20           | 11.4           | 6.2            | 0.50           |
|  | 82031510    | 2x10.0mm <sup>2</sup><br>2x8AWG  | red        | yes       | 24.0           | 12.0           | 5.8            | 0.20           | 13.4           | 7.6            | 0.50           |
|  | 82031520    | 2x16.0mm <sup>2</sup><br>2x6AWG  | blue       | yes       | 29.0           | 16.0           | 8.3            | 0.30           | 17.0           | 9.5            | 0.50           |

## Crimping Tools

| Style   | Part Number | Specifications  |
|---|-------------|---|
|  | 82033010    | Crimping tool for ferrules with and without insulating collar, from 0.5mm to 6mm <sup>2</sup> (AWG 20-10). Five crimping profiles depending on the wire cross-section.                                      |
|   | 82033020    | Crimping tool for ferrules with and without insulating collar, from 6mm up to 16mm <sup>2</sup> (AWG 10-6). Crimping conforms to EN 60947-1. Three crimping profiles for the rated conductor cross-section. |

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