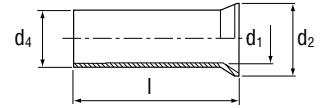


# Ferrule Selection Guide

## 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> 20AWG	none	no	1.0	2.1	1.3	6.0
	82031040	0.75mm <sup>2</sup> 18AWG	none	no	1.2	2.3	1.5	10.0
	82031070	1.0mm <sup>2</sup> 17AWG	none	no	1.4	2.5	1.7	6.0
	82031080	1.0mm <sup>2</sup> 17AWG	none	no	1.4	2.5	1.7	10.0
	82031540	1.5mm <sup>2</sup> 16AWG	none	no	1.7	2.8	2.0	6.0
	82031110	1.5mm <sup>2</sup> 16AWG	none	no	1.7	2.8	2.0	10.0
	82031120	1.5mm <sup>2</sup> 16AWG	none	no	1.7	2.8	2.0	12.0
	82031150	2.5mm <sup>2</sup> 14AWG	none	no	2.2	3.4	2.5	7.0
	82031160	2.5mm <sup>2</sup> 14AWG	none	no	2.2	3.4	2.5	12.0
	82031190	4.0mm <sup>2</sup> 12AWG	none	no	2.8	4.0	3.2	12.0
	82031200	4.0mm <sup>2</sup> 12AWG	none	no	2.8	4.0	3.2	18.0
	82031230	6.0mm <sup>2</sup> 10AWG	none	no	3.5	4.7	3.9	12.0
	82031240	6.0mm <sup>2</sup> 10AWG	none	no	3.5	4.7	3.9	18.0
	82031270	10.0mm <sup>2</sup> 8AWG	none	no	4.5	5.8	4.9	15.0
	82031280	10.0mm <sup>2</sup> 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.

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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> 6AWG	none	no	5.8	7.5	6.2	18.0
	82031320	16.0mm <sup>2</sup> 6AWG	none	no	5.8	7.5	6.2	25.0
	82031350	25.0mm <sup>2</sup> 4AWG	none	no	7.3	9.5	7.7	18.0
	82031360	25.0mm <sup>2</sup> 4AWG	none	no	7.3	9.5	7.7	25.0
	82031390	35.0mm <sup>2</sup> 2AWG	none	no	8.3	11.0	8.7	18.0
	82031400	35.0mm <sup>2</sup> 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:

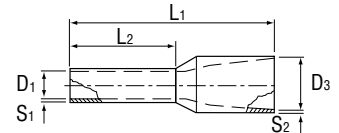
-5°C to 105°C

### Flammability:

UL 94HB

### Environmental:

RoHS and REACH compliant



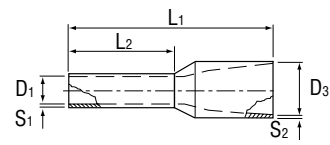
Dimensions are in mm

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> 20AWG	white	yes	14.0	8.0	1.0	0.15	2.6	0.25
	82031030	0.5mm <sup>2</sup> 20AWG	white	yes	16.0	10.0	1.0	0.15	2.6	0.25
	82031050	0.75mm <sup>2</sup> 18AWG	gray	yes	14.0	8.0	1.2	0.15	2.8	0.25
	82031060	0.75mm <sup>2</sup> 18AWG	gray	yes	16.0	10.0	1.2	0.15	2.8	0.25
	82031090	1.0mm <sup>2</sup> 17AWG	red	yes	14.0	8.0	1.4	0.15	3.0	0.25
	82031100	1.0mm <sup>2</sup> 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> 16AWG	black	yes	14.0	8.0	1.7	0.15	3.5	0.25
	82031140	1.5mm <sup>2</sup> 16AWG	black	yes	16.0	10.0	1.7	0.15	3.5	0.25
	82031170	2.5mm <sup>2</sup> 14AWG	blue	yes	15.0	8.0	2.2	0.15	4.2	0.25
	82031180	2.5mm <sup>2</sup> 14AWG	blue	yes	19.0	12.0	2.2	0.15	4.2	0.25
	82031210	4.0mm <sup>2</sup> 12AWG	gray	yes	18.0	10.0	2.8	0.20	4.8	0.30
	82031220	4.0mm <sup>2</sup> 12AWG	gray	yes	20.0	12.0	2.8	0.20	4.8	0.30
	82031250	6.0mm <sup>2</sup> 10AWG	yellow	yes	20.0	12.0	3.5	0.20	6.3	0.30
	82031260	6.0mm <sup>2</sup> 10AWG	yellow	yes	26.0	18.0	3.5	0.20	6.3	0.30
	82031290	10.0mm <sup>2</sup> 8AWG	red	yes	22.0	12.0	4.5	0.20	7.6	0.40
	82031300	10.0 mm <sup>2</sup> 8 AWG	red	yes	27.0	18.0	4.5	0.20	7.6	0.40
	82031330	16.0mm <sup>2</sup> 6AWG	blue	yes	22.0	12.0	5.8	0.20	8.8	0.40
	82031340	16.0mm <sup>2</sup> 6AWG	blue	yes	29.0	18.0	5.8	0.20	8.8	0.40
	82031370	25.0mm <sup>2</sup> 4AWG	yellow	yes	29.0	16.0	7.3	0.20	11.2	0.40
	82031380	25.0mm <sup>2</sup> 4AWG	yellow	yes	36.0	22.0	7.3	0.20	11.2	0.50
	82031410	35.0mm <sup>2</sup> 2AWG	red	yes	30.0	16.0	8.3	0.20	12.7	0.55
	82031420	35.0mm <sup>2</sup> 2AWG	red	yes	39.0	25.0	8.3	0.20	12.7	0.55
	82031430	50.0mm <sup>2</sup> 1AWG	blue	yes	36.0	20.0	10.3	0.35	15.0	0.50

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

# Double-Wire Ferrules

## Approvals:

Click for approval documents

## Barrel material:

Tin-plated copper

## Insulation:

Polypropylene-fluoropolymer

## Temperature rating:

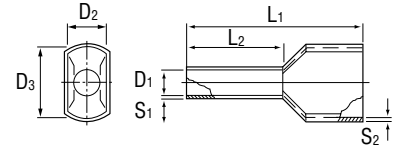
-5°C to 105°C

## 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> 2x20AWG	white	yes	14.0	8.0	1.4	0.15	5.0	3.0	0.30
	82031450	2x0.75mm <sup>2</sup> 2x18AWG	gray	yes	14.0	8.0	1.7	0.15	5.5	3.0	0.30
	82031460	2x1.0mm <sup>2</sup> 2x17AWG	red	yes	15.0	8.0	2.0	0.15	5.8	3.2	0.30
	82031470	2x1.5mm <sup>2</sup> 2x16AWG	black	yes	16.0	8.0	2.2	0.15	6.5	3.6	0.30
	82031530	2x2.5mm <sup>2</sup> 2x14AWG	blue	yes	21.5	13.0	2.9	0.15	7.5	4.0	0.30
	82031480	2x2.5mm <sup>2</sup> 2x14AWG	blue	yes	19.0	10.0	2.8	0.15	8.0	4.5	0.40
	82031490	2x4.0mm <sup>2</sup> 2x12AWG	gray	yes	22.0	12.0	3.5	0.20	9.0	5.2	0.50
	82031500	2x6.0mm <sup>2</sup> 2x10AWG	yellow	yes	23.0	12.0	4.5	0.20	11.4	6.2	0.50
	82031510	2x10.0mm <sup>2</sup> 2x8AWG	red	yes	24.0	12.0	5.8	0.20	13.4	7.6	0.50
	82031520	2x16.0mm <sup>2</sup> 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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