

Cable/Ferrule Selection Guide

This guide is to assist with choosing the correct ferrules for termination of power cords and wiring harnesses. Note that cable of the same type and size can vary due to such considerations as tolerances, stranding composition, and simply the differences in design between manufacturers. Also, jacket material may cause problems, due to its thickness with the insulated ferrules fitting over the jacket. Note however, that it is NOT mandatory for the insulator to fit over the jacket; it only needs to be slipped up against the conductor jacket. In the case of jacket materials that are too thick for the funnel sleeve to fit over, it is sometimes possible to use the next size bigger on the ferrule list. However, it is important that if this is done, that the customer verify that the crimp is adequate.

Key and Notes:

(Sh) = Shielded Cable

(R) = International Rubber Cable

* Ground wire may need larger size or double-wire ferrule if drain wire is to be terminated to ground inside the ferrule.

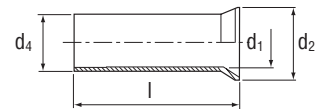
** Ferrule of the next larger size may be used for ease of installation or for better sleeve fit.























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Cable	Description	Uninsulated Ferrules	Insulated Ferrules	Double Action Ferrules
86010450	3 x 18 SJT	82031070, 82031080	82031090, 82031100**	82031460**
86010460	3 x 16 SJT	82031110, 82031120	82031130, 82031140	82031470
86010470	3 x 14 SJT	82031150, 82031160	82031170, 82031180	82031480, 82031530
86010480	3 x 12 SJT	82031190, 82031200	82031210, 82031220	
86010600	3 x 14 SO	82031150, 82031160	82031170, 82031180**	82031480**, 82031530*
86010610	3 x 12 SO	82031190, 82031200	82031210, 82031220**	
86010620	3 x 10 SO	82031230, 82031240	82031250, 82031260	
86010630	3 x 8 SO	82031270, 82031280	82031290, 82031300	82031510
86010661	5 x 10 SO	82031230, 82031240	82031250, 82031260	
86010670	5 x 8 SO	82031270, 82031280	82031290, 82031300	82031510
86010690	5 x 4 SEO	82031350, 82031360	82031370, 82031380	
86010700	5 x 2 SEO	82031390, 82031400	82031410, 82031420	
86020020	3 x 0.75mm ²	82031040	82031050, 82031060	82031450
86020030	3 x 1.00mm ²	82031070, 82031080	82031090, 82031100	82031460
86020040	3 x 1.50mm ²	82031110, 82031120	82031130, 82031140	82031470
86020050	3 x 2.5mm ²	82031150, 82031160	82031170, 82031180	82031480, 82031530
86020090	3 x 4.00mm ²			
86020120	3 x 0.75mm ²	82031040	82031050, 82031060	82031450
86020130	3 x 1.00mm ²	82031070, 82031080	82031090, 82031100	82031460
86020140	3 x 1.50mm ²	82031110, 82031120	82031130, 82031140	82031470
86020150	3 x 2.50mm ²	82031150, 82031160	82031170, 82031180	82031480, 82031530
86020160	2 x 0.75mm ²	82031040	82031050, 82031060	82031450
86020180	3 x 1.00mm ²	82031070, 82031080	82031090, 82031100	82031460
86020190	5 x 1.00mm ²	82031070, 82031080	82031090, 82031100	82031460
86020200	5 x 1.50mm ²	82031110, 82031120	82031130, 82031140	82031470
86020210	5 x 2.50mm ²	82031150, 82031160	82031170, 82031180	82031480, 82031530
86020240	3 x 1.50mm ²	82031110, 82031120	82031130, 82031140	82031470
86020300	3 x 1.50mm ² (R)	82031110, 82031120	82031130, 82031140	82031470
86020310	3 x 2.50mm ² (R)	82031150, 82031160	82031170, 82031180	82031480, 82031530
86020320	3 x 4.00mm ² (R)	82031190, 82031200	82031210, 82031220	82031490
86020330	3 x 1.50mm ²	82031110, 82031120	82031130, 82031140	82031470
86020340	3 x 2.50mm ²	82031150, 82031160	82031170, 82031180	82031480, 82031530
86020410	5 x 2.50mm ² (R)	82031150, 82031160	82031170, 82031180	82031480, 82031530
86020420	5 x 4.00mm ² (R)	82031190, 82031200	82031210, 82031220	82031490
86020430	5 x 6.00mm ² (R)	82031230, 82031240	82031250, 82031260	82031500
86020440	5 x 10.0mm ² (R)	82031270, 82031280	82031290, 82031300	82031510
86020490	5 x 16.0mm ² (R)	82031310, 82031320	82031330, 82031340	82031520
86020500	5 x 35.0mm ² (R)	82031390, 82031400	82031410, 82031420	
86021030	3 x 1.00mm ² Sh	82031070, 82031080	82031090, 82031100	82031460
86024000*	3 x 18 SJT (Sh)	82031070, 82031080	82031090, 82031100	82031460
86024010*	3 x 16 SJT (Sh)	82031110, 82031120	82031130, 82031140	82031470
86030100	3 x 18 SJT	82031070, 82031080	82031090, 82031100	82031460
86030110	3 x 16 SJT	82031110, 82031120	82031130, 82031140	82031470
86030120	3 x 14 SJT	82031150, 82031160	82031170, 82031180	82031480, 82031530
86030130	3 x 18 SVT	82031070, 82031080	82031090, 82031100	82031460
86030140	3 x 18 SJT	82031070, 82031080	82031090, 82031100	82031460
86030160	3 x 18 SJT	82031070, 82031080	82031090, 82031100	82031460
86030170	3 x 16 SJT	82031110, 82031120	82031130, 82031140	82031470
86030180	3x14 SJT	82031150, 82031160	82031170, 82031180	82031480, 82031530
86030190	3 x 18 SVT	82031070, 82031080	82031090, 82031100	82031460
86030200	2 x 14 SJT/W	82031150, 82031160	82031170, 82031180	82031480, 82031530
86030210	3 x 18 SJT/O	82031070, 82031080	82031090, 82031100	82031460
86030220	3 x 18 SJT	82031070, 82031080	82031090, 82031100	82031460
86030230	3 x 18 SJT	82031070, 82031080	82031090, 82031100	82031460
86030260	2 x 18 SPT-2	82031070, 82031080	82031090, 82031100	82031460
86030270	2 x 16 SPT-2	82031110, 82031120	82031130, 82031140	82031470
86030280	3 x 12 SJT	82031190, 82031200	82031210, 82031220	82031490
86030290	3 x 16 SJT	82031110, 82031120	82031130, 82031140	82031470
86030310	3 x 12 SJT	82031190, 82031200	82031210, 82031220	82031490
86030320	3 x 18 SVT	82031070, 82031080	82031090, 82031100	82031460
86030340	3 x 18 SPT-3	82031070, 82031080	82031090, 82031100	82031460
86030350	3 x 16 SPT-3	82031110, 82031120	82031130, 82031140	82031470
86030360	3 x 14 SPT-3	82031150, 82031160	82031170, 82031180	82031480, 82031530
86030370	3 x 12 SPT-3	82031190, 82031200	82031210, 82031220	82031490
86030380	4 x 12 SJT	82031190, 82031200	82031210, 82031220	82031490
86030390	5 x 12 SJT	82031190, 82031200	82031210, 82031220	82031490
86030400	3 x 12 SJT	82031190, 82031200	82031210, 82031220	82031490
86030430	3 x 10 SJT	82031230, 82031240	82031250, 82031260	
86030440	3 x 18 SJT	82031020, 82031080	82031090, 82031100	82031460
86030450	3 x 16 SJT	82031110, 82031120	82031130, 82031140	82031470
86030460	3 x 14 SJT	82031150, 82031160	82031170, 82031180	82031480, 82031530
86030500	3 x 12 SEOW	82031190, 82031200	82031210, 82031220	82031490
86030510	3 x 14 SEOW	82031150, 82031160	82031170, 82031180**	82031480**, 82031530*
86030520	3 x 16 SEOW	82031110, 82031120	82031130, 82031140	82031470
86030530	3 x 14 SJEOW/SJTOW	82031150, 82031160	82031170, 82031180	82031480, 82031530
86030540	3 x 18 SEOW/STOW	82031070, 82031080	82031090, 82031100	82031460
86030550	3 x 16 SJEOW/SJTOW	82031110, 82031120	82031130, 82031140	82031470
86030560	3x18 SJEOW/SJTOW	82031070, 82031080	82031090, 82031100	82031460
86030610	2 x 16 SEOW	82031110, 82031120	82031130, 82031140	82031470
86030620	2 x 14 SEOW	82031150, 82031160	82031170, 82031180	82031480, 82031530
86030700	3 x 12 STO	82031190, 82031200	82031210, 82031220	
86030710	3 x 14 STO	82031150, 82031160	82031170, 82031180	82031480, 82031530
86030900	3 x 12 SEOW	82031190, 82031200	82031210, 82031220	
86040200	3 x 18 SJT	82031070, 82031080	82031090, 82031100	82031460
86040300	3 x 18 SJT	82031070, 82031080	82031090, 82031100	82031460
86040400	3 x 18 SJT	82031070, 82031080	82031090, 82031100	82031460
86040110	3 x 16 SJT	82031110, 82031120	82031130, 82031140	82031470

Uninsulated Wire Ferrules

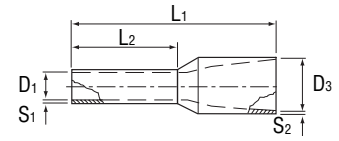


Style	Part Number	Cable mm ²	Length mm	DIN* Color	Insulated	d_1	d_2	d_4	l
	82031010	0.5	—	none	no	1.0	2.1	1.3	8.0
	82031040	0.75	—	none	no	1.2	2.3	1.5	10.0
	82031070	1.0	—	none	no	1.4	2.5	1.7	8.0
	82031080	1.0	—	none	no	1.4	2.5	1.7	12.0
	82031110	1.5	—	none	no	1.7	2.8	2.0	10.0
	82031120	1.5	—	none	no	1.7	2.8	2.0	15.0
	82031150	2.5	—	none	no	2.2	3.4	2.5	8.0
	82031160	2.5	—	none	no	2.2	3.4	2.5	12.0
	82031190	4.0	—	none	no	2.8	4.0	3.2	12.0
	82031200	4.0	—	none	no	2.8	4.0	3.2	18.0
	82031230	6.0	—	none	no	3.5	4.7	3.9	12.0
	82031240	6.0	—	none	no	3.5	4.7	3.9	18.0
	82031270	10.0	—	none	no	4.5	5.8	4.9	16.0
	82031280	10.0	—	none	no	4.5	5.8	4.9	20.0
	82031310	16.0	—	none	no	5.8	7.5	6.2	18.0
	82031320	16.0	—	none	no	5.8	7.5	6.2	25.0
	82031350	25.0	—	none	no	7.3	9.5	7.7	18.0
	82031360	25.0	—	none	no	7.3	9.5	7.7	25.0
	82031390	35.0	—	none	no	8.3	11.0	8.7	18.0
	82031400	35.0	—	none	no	8.3	11.0	8.7	25.0

Dimensions in mm

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

Insulated Wire Ferrules



Style	Part Number	Cable mm ²	Length* mm	DIN** Color	Insulated	L ₁	L ₂	D ₁	S ₁	D ₃	S ₂
	82031020	0.5	N	white	yes	14.0	8.0	1.0	0.15	2.6	0.25
	82031030	0.5	M	white	yes	16.0	10.0	1.0	0.15	2.6	0.25
	82031050	0.75	N	gray	yes	14.0	8.0	1.2	0.15	2.8	0.25
	82031060	0.75	M	gray	yes	16.0	10.0	1.2	0.15	2.8	0.25
	82031090	1.0	N	red	yes	14.0	8.0	1.4	0.15	3.0	0.30
	82031100	1.0	M	red	yes	16.0	10.0	1.4	0.15	3.0	0.30
	82031130	1.5	N	black	yes	14.0	8.0	1.7	0.15	3.5	0.30
	82031140	1.5	M	black	yes	16.0	10.0	1.7	0.15	3.5	0.30
	82031170	2.5	N	blue	yes	15.0	8.0	2.2	0.15	4.2	0.30
	82031180	2.5	M	blue	yes	19.0	12.0	2.2	0.15	4.2	0.30
	82031210	4.0	N	gray	yes	17.0	10.0	2.8	0.20	4.8	0.30
	82031220	4.0	M	gray	yes	20.0	12.0	2.8	0.20	4.8	0.30
	82031250	6.0	N	yellow	yes	20.0	12.0	3.5	0.20	6.3	0.30
	82031260	6.0	L	yellow	yes	26.0	18.0	3.5	0.20	6.3	0.30
	82031290	10.0	N	red	yes	21.0	12.0	4.5	0.20	7.6	0.40
	82031300	10.0	L	red	yes	27.0	18.0	4.5	0.20	7.6	0.40
	82031330	16.0	N	blue	yes	23.0	12.0	5.8	0.20	8.8	0.40
	82031340	16.0	L	blue	yes	29.0	18.0	5.8	0.20	8.8	0.40

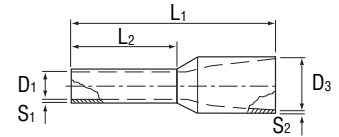
* N=Normal, M=Medium, L=Long

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

Dimensions in mm



Insulated Wire Ferrules

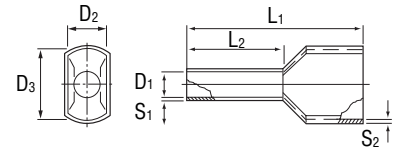


Style	Part Number	Cable mm ²	Length* mm	DIN** Color	Insulated	L ₁	L ₂	D ₁	S ₁	D ₃	S ₂
	82031370	25.0	N	yellow	yes	29.0	16.0	7.3	0.20	11.2	0.40
	82031380	25.0	L	yellow	yes	35.0	22.0	7.3	0.20	11.2	0.50
	82031410	35.0	N	red	yes	30.0	16.0	8.3	0.20	12.7	0.55
	82031420	35.0	L	red	yes	39.0	25.0	8.3	0.20	12.7	0.55
	82031430	50.0	N	blue	yes	36.0	20.0	10.3	0.35	15.0	0.50

Cable Accessories

Double-Wire Ferrules

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.



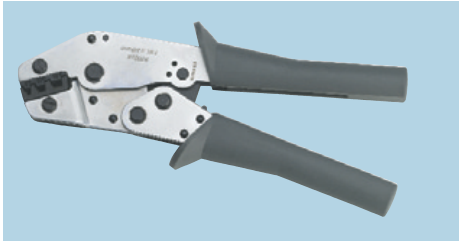
Style	Part Number	Cable mm ²	Length* mm	DIN** Color	Insulated	L ₁	L ₂	D ₁	S ₁	D ₃	D ₂	S ₂
	82031440	2x0.5	N	white	yes	14.6	8.2	1.4	0.15	5.0	3.0	0.25
	82031450	2x0.75	N	gray	yes	14.6	8.2	1.7	0.15	5.3	2.8	0.25
	82031460	2x1.0	N	red	yes	15.8	8.2	2.05	0.15	6.3	3.4	0.25
	82031470	2x1.5	N	black	yes	15.8	8.2	2.3	0.15	6.3	3.4	0.25
	82031480	2x2.5	N	blue	yes	18.5	10.0	2.9	0.15	7.8	4.3	0.30
	82031490	2x4.0	N	gray	yes	22.0	12.0	3.6	0.20	8.8	5.0	0.30
	82031500	2x6.0	N	yellow	yes	23.0	12.0	4.6	0.20	11.2	6.2	0.50
	82031510	2x10.0	N	red	yes	24.0	12.0	5.8	0.20	13.2	7.4	0.50
	82031520	2x16.0	N	blue	yes	29.0	16.0	8.3	0.30	17.0	9.5	0.50

* N=Normal, M=Medium, L=Long

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

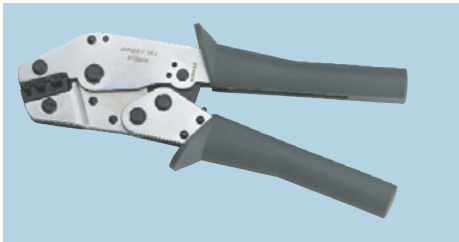
Dimensions in mm

Crimping Tools



Crimping Tool for Cable 0.5–6.0mm² or 20–10AWG

Part Number	Cable Sizes (mm ²)	Cable Sizes AWG	Tool Weight
82033010	0.5–6.0	20–10	335g



Crimping Tool for Cable 6.0–16.0mm² or 10–6AWG

Part Number	Cable Sizes (mm ²)	Cable Sizes AWG	Tool Weight
82033020	6.0–16.0	10–6	380g

