

Ferrules



Features

- Ferrules ensure reliable electrical connections when terminating conductors in screw clamp terminal blocks
- Fraying and breaking of wire strands is prevented and the possibility of an unreliable connection is minimized
- Insulated ferrules prevent conductor breakage due to bending, wire stress or vibration, while facilitating wire insertions into the terminal block clamp
- Ferrules are the preferred alternative to twisting wire stands or tinning the wire end before terminating into a terminal block
- Ferrules are thin-walled copper tubes, which are mechanically crimped onto the ends of stranded wires
- They are easy to use — simply strip the wire, slide the ferrule onto the end of the wire and crimp
- Meets emerging global standards, requiring wire-to-metric style terminal block installations to be terminated with a “pin” style terminal

- Vinyl-insulated, nylon-insulated and non-insulated styles
- All styles offered in #22 AWG to #10 AWG and compatible with existing Sta-Kon tooling

How to apply a ferrule

- Strip the insulation from the end of the wire and insert into the insulated end of the ferrule
- Using the designated crimping tool, place the metal shaft into the tool’s appropriate slot. Compress the tool to make a crescent-shape depression along the length of the ferrule
- Insert the crimped ferrule into the terminal block
- Tighten the ferrule and wire into the terminal block

Materials

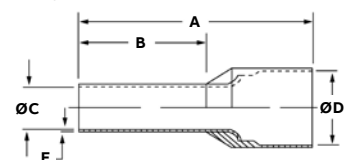
- High-conductivity copper
- Tin plating

Insulated ferrules

Cat. no.	Conductor section		Colour	Dimensions in./mm					Installation tooling	Pkg. qty.
	AWG	mm ²		A	B	øC	øD	E		
F4004	26	0.14	Grey	0.413 / 10.5	0.236 / 6.0	0.031 / 0.80	0.079 / 2.0	0.010 / 0.25	FER9502 & ERG4	500
F4005	26	0.14	Grey	0.492 / 12.5	0.315 / 8.0	0.031 / 0.80	0.079 / 2.0	0.010 / 0.25	FER9502 & ERG4	500
F4006	24	0.25	Yellow	0.413 / 10.5	0.236 / 6.0	0.031 / 0.80	0.079 / 2.0	0.010 / 0.25	FER9502 & ERG4	500
F4007	24	0.25	Yellow	0.492 / 12.5	0.315 / 8.0	0.031 / 0.80	0.079 / 2.0	0.010 / 0.25	FER9502 & ERG4	500
F4008	22	0.34	Purple	0.413 / 10.5	0.236 / 6.0	0.031 / 0.80	0.079 / 2.0	0.010 / 0.25	FER9502 & ERG4	500
F4009	22	0.34	Purple	0.492 / 12.5	0.315 / 8.0	0.031 / 0.80	0.079 / 2.0	0.010 / 0.25	FER9502 & ERG4	500
F2020	20	0.50	White	0.453 / 11.5	0.236 / 6.0	0.043 / 1.1	0.098 / 2.5	0.006 / 0.15	FER9502 & ERG4	500
F2021	20	0.50	White	0.531 / 13.5	0.315 / 8.0	0.043 / 1.1	0.098 / 2.5	0.006 / 0.15	FER9502 & ERG4	500
F2022	20	0.50	White	0.610 / 15.5	0.394 / 10.0	0.043 / 1.1	0.098 / 2.5	0.006 / 0.15	FER9502 & ERG4	500
F2023	18	0.75	Grey	0.472 / 12.0	0.236 / 6.0	0.051 / 1.3	0.110 / 2.8	0.006 / 0.15	FER9502 & ERG4	500
F2024	18	0.75	Grey	0.551 / 14.0	0.315 / 8.0	0.051 / 1.3	0.110 / 2.8	0.006 / 0.15	FER9502 & ERG4	500
F2025	18	0.75	Grey	0.630 / 16.0	0.394 / 10.0	0.051 / 1.3	0.110 / 2.8	0.006 / 0.15	FER9502 & ERG4	500
F2026	18	0.75	Grey	0.709 / 18.0	0.472 / 12.0	0.051 / 1.3	0.110 / 2.8	0.006 / 0.15	FER9502 & ERG4	500
F2027	18	1.00	Red	0.492 / 12.5	0.236 / 6.0	0.059 / 1.5	0.118 / 3.0	0.006 / 0.15	FER9502 & ERG4	500
F2028	18	1.00	Red	0.571 / 14.5	0.315 / 8.0	0.059 / 1.5	0.118 / 3.0	0.006 / 0.15	FER9502 & ERG4	500
F2029	18	1.00	Red	0.650 / 16.5	0.394 / 10.0	0.059 / 1.5	0.118 / 3.0	0.006 / 0.15	FER9502 & ERG4	500
F2030	18	1.00	Red	0.728 / 18.5	0.472 / 12.0	0.059 / 1.5	0.118 / 3.0	0.006 / 0.15	FER9502 & ERG4	500

Ferrule dimensions conform to DIN 46228, Part 4

Diagram



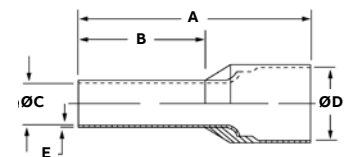
Ferrules

Insulated ferrules

Cat. no.	Conductor section		Colour	Dimensions in./mm					Installation tooling	Pkg. qty.
	AWG	mm ²		A	B	øC	øD	E		
F2031	16	1.50	Black	0.571 / 14.5	0.315 / 8.0	0.071 / 1.8	0.134 / 3.4	0.006 / 0.15	FER9502 & ERG4	500
F2032	16	1.50	Black	0.650 / 16.5	0.394 / 10.0	0.071 / 1.8	0.134 / 3.4	0.006 / 0.15	FER9502 & ERG4	500
F2033	16	1.50	Black	0.728 / 18.5	0.472 / 12.0	0.071 / 1.8	0.134 / 3.4	0.006 / 0.15	FER9502 & ERG4	500
F2034	16	1.50	Black	0.965 / 24.5	0.708 / 18.0	0.071 / 1.8	0.134 / 3.4	0.006 / 0.15	FER9502 & ERG4	500
F2035	14	2.50	Blue	0.591 / 15.0	0.315 / 8.0	0.091 / 2.3	0.165 / 4.2	0.006 / 0.15	FER9502 & ERG4	500
F2036	14	2.50	Blue	0.748 / 19.0	0.472 / 12.0	0.091 / 2.3	0.165 / 4.2	0.006 / 0.15	FER9502 & ERG4	500
F2037	14	2.50	Blue	0.984 / 25.0	0.708 / 18.0	0.091 / 2.3	0.165 / 4.2	0.006 / 0.15	FER9502 & ERG4	500
F2038	12	4.00	Grey	0.889 / 17.5	0.394 / 10.0	0.114 / 2.9	0.189 / 4.8	0.008 / 0.20	ERG4	500
F2039	12	4.00	Grey	0.787 / 20.0	0.472 / 12.0	0.114 / 2.9	0.189 / 4.8	0.008 / 0.20	ERG4	500
F2040	12	4.00	Grey	1.024 / 26.0	0.708 / 18.0	0.114 / 2.9	0.189 / 4.8	0.008 / 0.20	ERG4	100
F2041	10	6.00	Yellow	0.787 / 20.0	0.472 / 12.0	0.142 / 3.6	0.244 / 6.2	0.008 / 0.20	ERG4	100
F2042	10	6.00	Yellow	0.984 / 25.0	0.708 / 18.0	0.142 / 3.6	0.244 / 6.2	0.008 / 0.20	ERG4	100
F2043	8	10.00	Red	0.827 / 21.0	0.472 / 12.0	0.181 / 4.6	0.295 / 7.5	0.008 / 0.20	ERG4	100
F2044	8	10.00	Red	1.063 / 27.0	0.708 / 18.0	0.181 / 4.6	0.295 / 7.5	0.008 / 0.20	ERG4	100
F2045	6	16.00	Blue	0.906 / 23.0	0.472 / 12.0	0.236 / 6.0	0.346 / 8.8	0.008 / 0.20	ERG4	100
F2046	6	16.00	Blue	1.142 / 29.0	0.708 / 18.0	0.236 / 6.0	0.346 / 8.8	0.008 / 0.20	ERG4	100
F2047	4	25.00	Yellow	1.142 / 29.0	0.630 / 18.0	0.295 / 7.5	0.433 / 11.0	0.008 / 0.20	ERG4	50
F2048	4	25.00	Yellow	1.220 / 31.0	0.708 / 18.0	0.295 / 7.5	0.433 / 11.0	0.008 / 0.20	ERG4	50
F2049	4	25.00	Yellow	1.378 / 35.0	0.866 / 22.0	0.295 / 7.5	0.433 / 11.0	0.008 / 0.20	ERG4	50
F2050	2	35.00	Red	1.181 / 30.0	0.630 / 16.0	0.335 / 8.5	0.492 / 12.5	0.008 / 0.20	ERG4	50
F2051	2	35.00	Red	1.260 / 32.0	0.708 / 18.0	0.335 / 8.5	0.492 / 12.5	0.008 / 0.20	ERG4	50
F2052	2	35.00	Red	1.535 / 39.0	0.984 / 25.0	0.335 / 8.5	0.492 / 12.5	0.008 / 0.20	ERG4	50
F2053	1	50.00	Blue	1.417 / 36.0	0.787 / 20.0	0.413 / 10.5	0.591 / 15.0	0.014 / 0.35	ERG4	50
F2054	1	50.00	Blue	1.614 / 41.0	0.984 / 25.0	0.413 / 10.5	0.591 / 15.0	0.014 / 0.35	ERG4	50

Ferrule dimensions conform to DIN 46228, Part 4

Diagram



Ferrules



Strip lengths for insulated ferrules

Cat. no.	Pin length (in.)	Min. strip length (in.)	Max. strip length (in.)
F2020	0.236	0.3147	0.354
F2021	0.315	0.3937	0.433
F2022	0.394	0.4727	0.512
F2023	0.236	0.3147	0.354
F2024	0.315	0.3937	0.433
F2025	0.394	0.4727	0.512
F2026	0.472	0.5507	0.59
F2027	0.236	0.3147	0.354
F2028	0.315	0.3937	0.433
F2029	0.394	0.4727	0.512
F2030	0.472	0.5507	0.59
F2031	0.315	0.3937	0.433
F2032	0.394	0.4727	0.512
F2033	0.472	0.5507	0.59
F2034	0.708	0.7867	0.826
F2035	0.315	0.3937	0.433
F2036	0.472	0.5507	0.59
F2037	0.708	0.7867	0.826
F2038	0.394	0.4727	0.512
F2039	0.472	0.5507	0.59
F2040	0.708	0.7867	0.826
F2041	0.472	0.5507	0.59
F2042	0.708	0.7867	0.826
F2043	0.472	0.5507	0.59
F2044	0.708	0.7867	0.826
F2045	0.472	0.5507	0.59

Cat. no.	Pin length (in.)	Min. strip length (in.)	Max. strip length (in.)
F2046	0.708	0.7867	0.826
F2047	0.63	0.7087	0.748
F2048	0.708	0.7867	0.826
F2049	0.866	0.9447	0.984
F2050	0.53	0.6087	0.648
G2051	0.708	0.7867	0.826
G2052	0.984	1.0627	1.102
G2053	0.787	0.8657	0.905
F2054	0.984	1.0627	1.102
F4000	0.315	0.3937	0.433
F4001	0.315	0.3937	0.433
F4002	0.315	0.3937	0.433
F4003	0.315	0.3937	0.433
F4004	0.236	0.3147	0.354
F4005	0.315	0.3937	0.433
F4006	0.236	0.3147	0.354
F4007	0.315	0.3937	0.433
F4008	0.236	0.3147	0.354
F4009	0.315	0.3937	0.433
F4020	0.315	0.3937	0.433
F4021	0.315	0.3937	0.433
F4022	0.315	0.3937	0.433
F4023	0.315	0.3937	0.433
F4024	0.315	0.3937	0.433
F4027	0.315	0.3937	0.433
F4028	0.315	0.3937	0.433

Note: The stripping length is based on the thickness of the insulation wire – more thickness, more stripping length.

Ferrules



Insulated twin ferrules

Diagram	Cat. no.	Conductor section			Dimensions in./mm					Installation tool	Pkg. qty.
		AWG	mm ²	Colour	A	B	øC	øD	E		
	F8000	2 x 20	2 x 0.50	White	0.591 / 15.0	0.315 / 8.0	0.059 / 1.5	0.177 / 4.5	0.010 / 0.25	FER9502	500
	F8001	2 x 18	2 x 0.75	Grey	0.591 / 15.0	0.315 / 8.0	0.071 / 1.8	0.201 / 5.1	0.006 / 0.15	FER9502	500
	F8002	2 x 18	2 x 0.75	White	0.669 / 17.0	0.394 / 10.0	0.071 / 1.8	0.201 / 5.1	0.006 / 0.15	FER9502	500
	F8003	2 x 17	2 x 1.00	Red	0.591 / 15.0	0.315 / 8.0	0.081 / 2.05	0.201 / 5.1	0.006 / 0.15	FER9502	500
	F8005	2 x 17	2 x 1.00	White	0.669 / 17.0	0.394 / 10.0	0.081 / 2.05	0.201 / 5.1	0.006 / 0.15	FER9502	500
	F8006	2 x 16	2 x 1.50	Black	0.630 / 16.0	0.315 / 8.0	0.091 / 2.3	0.252 / 6.4	0.006 / 0.15	FER9502	500
	F8007	2 x 16	2 x 1.50	White	0.787 / 20.0	0.472 / 12.0	0.091 / 2.3	0.252 / 6.4	0.006 / 0.15	FER9502	500
	F8008	2 x 14	2 x 2.50	Blue	0.728 / 18.5	0.394 / 10.0	0.114 / 2.9	0.295 / 7.5	0.006 / 0.15	FER9502	500
	F8009	2 x 14	2 x 2.50	White	0.846 / 21.5	0.512 / 13.0	0.114 / 2.9	0.295 / 7.5	0.006 / 0.15	FER9502	500
	F8010	2 x 12	2 x 4.00	Grey	0.906 / 23.0	0.472 / 12.0	0.150 / 3.8	0.339 / 8.6	0.006 / 0.15	ERG4/ matrice 6 mm	100
	F8011	2 x 10	2 x 6.00	Yellow	0.984 / 25.0	0.551 / 14.0	0.193 / 4.9	0.378 / 9.6	0.008 / 0.20	ERG4/ matrice 10 mm	100

Ferrule dimensions conform to DIN 46228, Part 4



Insulated ferrules (old DIN and French standards)

Diagram	Cat. no.	Style	Conductor		Colour	Dimensions in./mm					Installation tool	Pkg. qty.
			AWG	mm ²		A	B	øC	øD	E		
	F4000	Old DIN	20	0.50	Orange	0.571 / 14.5	0.315 / 8.0	0.043 / 1.1	0.102 / 2.6	0.006 / 0.15	FER9502 & ERG4	500
	F4001	Old DIN	18	0.75	White	0.571 / 14.5	0.315 / 8.0	0.051 / 1.3	0.110 / 2.8	0.006 / 0.15	FER9502 & ERG4	500
	F4002	Old DIN	18-17	1.00	Yellow	0.571 / 14.5	0.315 / 8.0	0.059 / 1.5	0.118 / 3.0	0.006 / 0.15	FER9502 & ERG4	500
	F4003	Old DIN	16	1.50	Red	0.571 / 14.5	0.315 / 8.0	0.071 / 1.8	0.134 / 3.4	0.006 / 0.15	FER9502 & ERG4	500
	F4020	Old DIN	14	2.50	Blue	0.571 / 14.5	0.315 / 8.0	0.091 / 2.3	0.165 / 4.2	0.006 / 0.15	FER9502 & ERG4	500
	F4021	French	20	0.50	White	0.571 / 14.5	0.315 / 8.0	0.043 / 1.1	0.102 / 2.6	0.006 / 0.15	FER9502 & ERG4	500
	F4023	French	18	0.75	Lt. Blue	0.571 / 14.5	0.315 / 8.0	0.051 / 1.3	0.110 / 2.8	0.006 / 0.15	FER9502 & ERG4	500
	F4024	French	18-17	1.00	Red	0.571 / 14.5	0.315 / 8.0	0.059 / 1.5	0.118 / 3.0	0.006 / 0.15	FER9502 & ERG4	500
	F4027	French	16	1.50	Black	0.571 / 14.5	0.315 / 8.0	0.071 / 1.8	0.134 / 3.4	0.006 / 0.15	FER9502 & ERG4	500
	F4028	French	14	2.50	Grey	0.571 / 14.5	0.315 / 8.0	0.091 / 2.3	0.165 / 4.2	0.006 / 0.15	FER9502 & ERG4	500

Ferrule dimensions conform to DIN 46228, Part 4



FER9502



ERG4

Tooling for Sta-Kon insulated ferrules

Cat. no.	Description	Pkg. qty.
FER9502	Sta-Kon crimp tool for wire ferrules #20-#14 AWG – insulated handle	1
ERG4	Comfort Crimp™ Sta-Kon crimp tool with Shure-Stake mechanism, for installing wire ferrules #26-1/0 AWG. Four interchangeable die sets included. Insulated handle. Packaged in sturdy plastic carrying case.	1

Ferrules



Non-insulated ferrules

Cat. no.	Conductor section		Dimensions in./mm				Installation tooling	Pkg. qty.
	AWG	mm ²	A	C	D	E		
F9000	24	0.25	0.196 / 5	0.030 / 0.75	0.067 / 1.7	0,006 / 0,15	FER9502 & ERG4	1,000
F9001	22	0.5	0.236 / 6	0.039 / 1.0	0.083 / 2.1	0,006 / 0,15	FER9502 & ERG4	1,000
F9002	22	0.5	0.394 / 10	0.039 / 1.0	0.083 / 2.1	0,006 / 0,15	FER9502 & ERG4	1,000
F9003	18	0.75	0.236 / 6	0.047 / 1.2	0.091 / 2.3	0,006 / 0,15	FER9502 & ERG4	1,000
F9004	18	0.75	0.394 / 10	0.047 / 1.2	0.091 / 2.3	0,006 / 0,15	FER9502 & ERG4	1,000
F9005	18	1	0.236 / 6	0.055 / 1.4	0.098 / 2.5	0,006 / 0,15	FER9502 & ERG4	1,000
F9006	18	1	0.394 / 10	0.055 / 1.4	0.098 / 2.5	0,006 / 0,15	FER9502 & ERG4	1,000
F9007	16	1.5	0.276 / 7	0.067 / 1.7	0.110 / 2.8	0,006 / 0,15	FER9502 & ERG4	1,000
F9008	16	1.5	0.394 / 10	0.067 / 1.7	0.110 / 2.8	0,006 / 0,15	FER9502 & ERG4	1,000
F9009	16	1.5	0.473 / 12	0.067 / 1.7	0.110 / 2.8	0,006 / 0,15	FER9502 & ERG4	1,000
F9010	16	1.5	0.709 / 18	0.067 / 1.7	0.110 / 2.8	0,006 / 0,15	FER9502 & ERG4	1,000
F9011	14	2.5	0.276 / 7	0.087 / 2.2	0.139 / 3.4	0,006 / 0,15	FER9502 & ERG4	1,000
F9012	14	2.5	0.394 / 10	0.087 / 2.2	0.139 / 3.4	0,006 / 0,15	FER9502 & ERG4	1,000
F9013	14	2.5	0.472 / 12	0.087 / 2.2	0.139 / 3.4	0,006 / 0,15	FER9502 & ERG4	1,000
F9014	14	2.5	0.709 / 18	0.087 / 2.2	0.139 / 3.4	0,006 / 0,15	FER9502 & ERG4	1,000
F9015	12	4	0.354 / 9	0.110 / 2.8	0.158 / 4	0,008 / 0,2	FER9502 & ERG4	1,000
F9016	12	4	0.472 / 12	0.110 / 2.8	0.158 / 4	0,008 / 0,2	FER9502 & ERG4	1,000
F9017	12	4	0.591 / 15	0.110 / 2.8	0.158 / 4	0,008 / 0,2	FER9502 & ERG4	1,000
F9018	12	4	0.709 / 18	0.110 / 2.8	0.158 / 4	0,008 / 0,2	FER9502 & ERG4	1,000
F9019	10	6	0.472 / 12	0.138 / 3.5	0.185 / 4.7	0,008 / 0,2	FER9502 & ERG4	1,000
F9020	10	6	0.591 / 15	0.138 / 3.5	0.185 / 4.7	0,008 / 0,2	FER9502 & ERG4	1,000
F9021	10	6	0.709 / 18	0.138 / 3.5	0.185 / 4.7	0,008 / 0,2	FER9502 & ERG4	1,000
F9022	8	10	0.472 / 12	0.177 / 4.5	0.228 / 5.8	0,008 / 0,2	ERG4	500
F9023	8	10	0.591 / 15	0.177 / 4.5	0.228 / 5.8	0,008 / 0,2	ERG4	500
F9024	8	10	0.709 / 18	0.177 / 4.5	0.228 / 5.8	0,008 / 0,2	ERG4	500
F9025	6	16	0.472 / 12	0.228 / 5.8	0.295 / 7.5	0,008 / 0,2	ERG4	250
F9026	6	16	0.591 / 15	0.228 / 5.8	0.295 / 7.5	0,008 / 0,2	ERG4	250
F9027	6	16	0.709 / 18	0.228 / 5.8	0.295 / 7.5	0,008 / 0,2	ERG4	250
F9028	6	16	0.984 / 25	0.228 / 5.8	0.295 / 7.5	0,008 / 0,2	ERG4	250
F9029	6	16	1.26 / 32	0.228 / 5.8	0.295 / 7.5	0,008 / 0,2	ERG4	250
F9030	4	25	0.591 / 15	0.287 / 7.3	0.374 / 9.5	0,010 / 0,25	ERG4	100
F9031	4	25	0.709 / 18	0.287 / 7.3	0.374 / 9.5	0,010 / 0,25	ERG4	100
F9032	4	25	0.984 / 25	0.287 / 7.3	0.374 / 9.5	0,010 / 0,25	ERG4	100
F9033	4	25	1.26 / 32	0.287 / 7.3	0.374 / 9.5	0,010 / 0,25	ERG4	100
F9034	2	35	0.709 / 18	0.327 / 8.3	0.433 / 11	0,010 / 0,25	ERG4	100
F9035	2	35	0.984 / 25	0.327 / 8.3	0.433 / 11	0,010 / 0,25	ERG4	100
F9036	2	35	1.26 / 32	0.327 / 8.3	0.433 / 11	0,010 / 0,25	ERG4	100
F9037	1/0	50	0.709 / 18	0.406 / 10.3	0.512 / 13	0,012 / 0,3	TB5095, ERG4	100
F9038	1/0	50	0.984 / 25	0.406 / 10.3	0.512 / 13	0,012 / 0,3	TB5095, ERG4	100
F9039	1/0	50	1.18 / 30	0.406 / 10.3	0.512 / 13	0,012 / 0,3	TB5095, ERG4	100

Diagram

