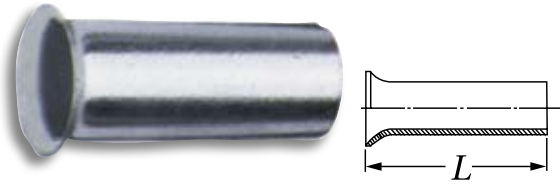


## Non-Insulated Wire Ferrules



- For terminating stranded wire into terminal blocks.
- Electrolytic copper and tin plating provide maximum conductivity and low contact resistance.
- Meets DIN 46228, part 1, 0.5 - 50 mm<sup>2</sup>.

### SPECIFICATIONS

<b>Material</b>	Copper	<b>Surface</b>	Tin plated
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CONDUCTOR SIZE AWG (mm <sup>2</sup> )	CATALOG NUMBER	UPC CODE	DIMENSION L INCHES (mm)	RECOMMENDED CRIMPING TOOLS
24 - 23 (0.25)	69 / 5VZ*	04989	.197 (5)	K1GL, K32GL, K30GL Die 03283
	69 / 7VZ*	04990	.276 (7)	
22 (0.34)	70 / 5VZ*	04991	.197 (5)	K1GL, K32GL, K30GL Die 03283
	70 / 7VZ*	04992	.276 (7)	
20 (0.5)	71S / 6VZ	04993	.236 (6)	K1GL, K32GL, K36GL, K30GL Die 03283
	71S / 8VZ*	04994	.315 (8)	
	71S / 10VZ	04995	.394 (10)	
18 (0.75)	71 / 6VZ	04996	.236 (6)	K1GL, K32GL, K36GL, K30GL Die 03283
	71 / 8VZ*	04997	.315 (8)	
	71 / 10VZ	04998	.394 (10)	
	71 / 15VZ*	04999	.591 (15)	
18 - 17 (1)	72S / 6VZ	05000	.236 (6)	K1GL, K32GL, K36GL, K30GL Die 03283
	72S / 8VZ*	05001	.315 (8)	
	72S / 10VZ	05002	.394 (10)	
	72S / 12VZ*	05003	.471 (12)	
	72S / 15VZ*	05004	.591 (15)	
16 (1.5)	72 / 7VZ	05005	.276 (7)	K1GL, K32GL, K36GL, K30GL Die 03283
	72 / 10VZ	05006	.394 (10)	
	72 / 12VZ	05007	.471 (12)	
	72 / 15VZ*	05008	.591 (15)	
	72 / 18VZ	05009	.709 (18)	
	72 / 20VZ*	05010	.787 (20)	
14 (2.5)	73 / 7VZ	05011	.276 (7)	K1GL, K32GL, K36GL, K30GL Die 03283
	73 / 10VZ	05012	.394 (10)	
	73 / 12VZ	05013	.471 (12)	
	73 / 15VZ*	05014	.591 (15)	
	73 / 18VZ	05015	.709 (18)	
12 (4)	74 / 9VZ	05016	.354 (9)	K32GL, K36GL, K30GL Die 03283
	74 / 12VZ	05017	.471 (12)	
	74 / 15VZ	05018	.591 (15)	
	74 / 18VZ	05019	.709 (18)	
	74 / 20VZ*	05020	.787 (20)	
10 (6)	75 / 10VZ	05021	.394 (10)	K32GL, K34GL, K36GL, K30GL Die 03283
	75 / 12VZ	05022	.471 (12)	
	75 / 15VZ	05023	.591 (15)	
	75 / 18VZ	05024	.709 (18)	
	75 / 20VZ*	05025	.787 (20)	
	75 / 25VZ*	05026	.984 (25)	
8 (10)	76 / 12VZ	05027	.471 (12)	K28GL, K34GL Die 03284
	76 / 15VZ	05028	.591 (15)	
	76 / 18VZ	05029	.709 (18)	
	76 / 20VZ*	05030	.787 (20)	
	76 / 25VZ*	05031	.984 (25)	

CONDUCTOR SIZE AWG (mm <sup>2</sup> )	CATALOG NUMBER	UPC CODE	DIMENSION L INCHES (mm)	RECOMMENDED CRIMPING TOOLS
6 (16)	77 / 12VZ	05032	.471 (12)	K28GL, K34GL Die 03283
	77 / 15VZ	05033	.591 (15)	
	77 / 18VZ	05034	.709 (18)	
	77 / 20VZ*	05035	.787 (20)	
	77 / 25VZ	05036	.984 (25)	
	77 / 32VZ	05037	1.260 (32)	
4 (25)	78 / 12VZ*	05038	.471 (12)	K28GL Die 03284
	78 / 15VZ	05039	.591 (15)	
	78 / 20VZ*	05041	.787 (20)	
	78 / 25VZ	05042	.984 (25)	
2 (35)	78 / 28VZ*	05043	1.102 (28)	K28GL
	79 / 15VZ*	05044	.591 (15)	
	79 / 18VZ	05045	.709 (18)	
	79 / 22VZ*	05046	.866 (22)	
1/0 (50)	79 / 25VZ	05047	.984 (25)	K28GL, K29GL
	79 / 30VZ*	05048	1.181 (30)	
	80 / 18VZ	05049	.709 (18)	
	80 / 22VZ*	05050	.866 (22)	
2/0 (70)	80 / 25VZ	05051	.984 (25)	K29GL
	80 / 30VZ*	05052	1.181 (30)	
	81 / 22VZ	05053	.866 (22)	
3/0 (95)	81 / 25VZ	05054	.984 (25)	K29GL
	81 / 30VZ	05055	1.181 (30)	
	82 / 25VZ	05056	.984 (25)	
	82 / 30VZ	05057	1.181 (30)	
4/0 (120)	82 / 32VZ	05058	1.260 (32)	22 Series Tool with AE 22/120 dies
	82 / 34VZ	05059	1.339 (34)	
	83 / 38VZ	05063	1.496 (38)	
	83 / 40VZ	05064	1.575 (40)	
300 KCMIL (150)	83 / 40VZ	05064	1.575 (40)	22 Series Tool with AE 22/150 dies
	84 / 32VZ	05065	1.260 (32)	
	84 / 34VZ	05066	1.339 (34)	
	84 / 38VZ	05067	1.496 (38)	
350 KCMIL (185)	84 / 40VZ	05068	1.575 (40)	22 Series Tool with AE 22/185 dies
	85 / 32VZ	05069	1.260 (32)	
	85 / 40VZ	05070	1.575 (40)	

\*No applicable standard.  
See pages 221 and 222 for recommended ferrule crimping tools.

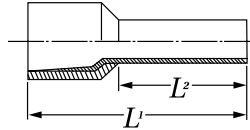
# Insulated Wire Ferrules



- Terminate stranded wire into terminal blocks.
- Electrolytic copper and tin plating provide maximum conductivity and low contact resistance.

## SPECIFICATIONS

<b>Material</b>	Copper
<b>Surface</b>	Tin-plated
<b>Insulated</b>	Polypropylene Plastic



### COLOR CODE: OLD DIN STANDARD

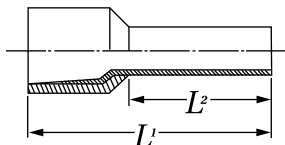
CONDUCTOR SIZE AWG (mm <sup>2</sup> )	CATALOG NUMBER	UPC NUMBER	COLOR	DIMENSIONS INCHES (mm)		RECOMMENDED CRIMPING TOOLS
				L1	L2	
(0.14)	166 / GR	04835	Gray	.409 (10.4)	.236 (6)	K1GL, K32GL Die 03283
	166 / GRL	04836		.488 (12.4)	.315 (8)	
24 (0.25)	167 / H	04837	Light Blue	.409 (10.4)	.236 (6)	K1GL, K32GL, K30GL Die 03283
	167 / HL	04838		.488 (12.4)	.315 (8)	
22 (0.34)	168 / T	04839	Turquoise	.409 (10.4)	.236 (6)	K1GL, K32GL, K30GL Die 03283
	168 / TL	04840		.488 (12.4)	.315 (8)	
20 (0.5)	169 / OK	04841	Orange	.471 (12)	.236 (6)	K1GL, K32GL, K36GL, K30GL Die 03283
	169 / O	04842		.551 (14)	.315 (8)	
	169 / OH	04843		.630 (16)	.394 (10)	
18 (0.75)	170 / WK	04844	White	.488 (12.4)	.236 (6)	K1GL, K32GL, K36GL, K30GL Die 03283
	170 / W	04845		.574 (14.6)	.315 (8)	
	170 / WH	04846		.645 (16.4)	.394 (10)	
	170 / WL	04847		.724 (18.4)	.471 (12)	
18 - 17 (1)	171 / GK	04848	Yellow	.488 (12.4)	.236 (6)	K1GL, K32GL, K36GL, K30GL Die 03283
	171 / G	04849		.574 (14.6)	.315 (8)	
	171 / GH	04850		.645 (16.4)	.394 (10)	
	171 / GL	04851		.724 (18.4)	.471 (12)	
16 (1.5)	172 / RO	04852	Red	.574 (14.6)	.315 (8)	K1GL, K32GL, K36GL, K30GL Die 03283
	172 / RH	04853		.645 (16.4)	.394 (10)	
	172 / RL	04854		.960 (24.4)	.709 (18)	
14 (2.5)	173 / B	04855	Blue	.598 (15.2)	.315 (8)	K1GL, K32GL, K36GL, K30GL Die 03283
	173 / BH	04856		.748 (19)	.471 (12)	
	173 / BL	04857		.984 (25)	.709 (18)	
12 (4)	174 / GR	04858	Gray	.649 (16.5)	.394 (10)	K32GL, K36GL, K30GL Die 03283
	174 / GRH	04859		.767 (19.5)	.471 (12)	
	174 / GRL	04860		1.003 (25.5)	.709 (18)	
10 (6)	175 / S	04861	Black	.787 (20)	.471 (12)	K32GL, K34GL, K36GL, K30GL Die 03283
	175 / SL	04862		1.024 (26)	.709 (18)	
8 (10)	176 / E	04863	Ivory	.846 (21.5)	.471 (12)	K28GL, K34GL
	176 / EL	04864		1.082 (27.5)	.709 (18)	
6 (16)	177 / GR	04865	Green	.870 (22.2)	.471 (12)	K28GL, K34GL
	177 / GRL	04866		1.110 (28.2)	.709 (18)	
4 (25)	178 / BR	04867	Brown	1.181 (30)	.630 (16)	K28GL
	178 / BRL	04868		1.377 (35)	.866 (22)	
2 (35)	179 / B	04869	Beige	1.181 (30)	.630 (16)	K28GL
	179 / BL	04870		1.535 (39)	.984 (25)	
1/0 (50)	180 / O	04871	Olive	1.433 (36.4)	.787 (20)	K28GL, K29GL

### COLOR CODE: DIN 46228, PART 4

CONDUCTOR SIZE AWG (mm <sup>2</sup> )	CATALOG NUMBER	UPC NUMBER	COLOR	DIMENSIONS INCHES (mm)		RECOMMENDED CRIMPING TOOLS
				L1	L2	
20 (0.5)	469 / 6	04548	White	.471 (12)	.236 (6)	K1GL, K32GL, K36GL, K30GL Die 03283
	469 / 8	04549		.551 (14)	.315 (8)	
	469 / 10	04550		.630 (16)	.394 (10)	
18 (0.75)	470 / 6	04551	Gray	.471 (12)	.236 (6)	K1GL, K32GL, K36GL, K30GL Die 03283
	470 / 8	04552		.551 (14)	.315 (8)	
	470 / 10	04553		.630 (16)	.394 (10)	
	470 / 12	04554		.709 (18)	.471 (12)	
18 - 17 (1)	471 / 6	04555	Red	.471 (12)	.236 (6)	K1GL, K32GL, K36GL, K30GL Die 03283
	471 / 8	04556		.551 (14)	.315 (8)	
	471 / 10	04557		.630 (16)	.394 (10)	
	471 / 12	04558		.709 (18)	.471 (12)	
16 (1.5)	472 / 8	04559	Black	.551 (14)	.315 (8)	K1GL, K32GL, K36GL, K30GL Die 03283
	472 / 10	04560		.630 (16)	.394 (10)	
	472 / 12	04561		.709 (18)	.471 (12)	
	472 / 18	04562		.945 (24)	.709 (18)	
14 (2.5)	473 / 8	04563	Blue	.551 (14)	.315 (8)	K1GL, K32GL, K36GL, K30GL Die 03283
	473 / 12	04564		.709 (18)	.471 (12)	
	473 / 18	04565		.945 (24)	.709 (18)	
12 (4)	474 / 10	04566	Gray	.699 (17)	.394 (10)	K32GL, K36GL, K30GL Die 03283
	474 / 12	04567		.787 (20)	.471 (12)	
	474 / 18	04568		1.024 (26)	.709 (18)	
10 (6)	475 / 12	04569	Yellow	.787 (20)	.471 (12)	K32GL, K34GL, K36GL, K30GL Die 03283
	475 / 18	04570		1.024 (26)	.709 (18)	
8 (10)	476 / 12	04571	Red	.866 (22)	.471 (12)	K28GL, K34GL Die 03284
	476 / 18	04572		1.102 (28)	.709 (18)	
6 (16)	477 / 12	04573	Blue	.945 (24)	.471 (12)	K28GL, K34GL Die 03284
	477 / 18	04574		1.102 (28)	.709 (18)	
4 (25)	478 / 16	04575	Yellow	1.181 (30)	.630 (16)	K28GL Die 03284
	478 / 18	04576		1.181 (30)	.709 (18)	
	478 / 22	04577		1.417 (36)	.866 (22)	
2 (35)	479 / 16	04578	Red	1.181 (30)	.630 (16)	K28GL
	479 / 18	04579		1.181 (30)	.709 (18)	
	479 / 25	04580		1.535 (39)	.984 (25)	
1/0 (50)	480 / 20	04581	Blue	1.417 (36)	.787 (20)	K28GL, K29GL
	480 / 25	04582		1.575 (40)	.984 (25)	

See pages 221 and 222 for recommended ferrule crimping tools.

# Insulated Wire Ferrules



- Terminate stranded wire into terminal blocks.
- Electrolytic copper and tin plating provide maximum conductivity and low contact resistance.

## SPECIFICATIONS

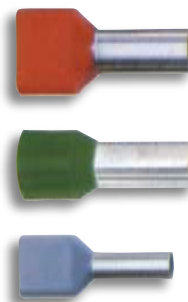
<b>Material</b>	Copper
<b>Surface</b>	Tin plated
<b>Insulation</b>	Polypropylene plastic

## COLOR CODE: FRENCH STANDARD.

CONDUCTOR SIZE AWG (mm <sup>2</sup> )	CATALOG NUMBER	UPC NUMBER	COLOR	DIMENSIONS INCHES (mm)		RECOMMENDED CRIMPING TOOLS
				L1	L2	
26 (0.14)	166 / 6	02971	Brown	.409 (10.4)	.236 (6)	K1GL, K32GL Die 03283
	166 / 8	02972		.488 (12.4)	.315 (8)	
24 (0.25)	167 / 6	02973	Light Yellow	.433 (11)	.236 (6)	K1GL, K32GL, K30GL Die 03283
	167 / 8	02974		.511 (13)	.315 (8)	
22 (0.34)	168 / 6	02975	Light Green	.433 (11)	.236 (6)	K1GL, K32GL, K30GL Die 03283
	168 / 8	02976		.511 (13)	.315 (8)	
20 (0.5)	169 / 6	02977	White	.433 (11)	.236 (6)	K1GL, K32GL, K30GL Die 03283
	169 / 8	02978		.511 (13)	.315 (8)	
18 (0.75)	170 / 6	02979	Blue	.452 (11.5)	.236 (6)	K1GL, K32GL, K36GL, K30GL Die 03283
	170 / 8	02980		.531 (13.5)	.315 (8)	
18 - 17 (1)	171 / 6	02981	Red	.452 (11.5)	.236 (6)	K1GL, K32GL, K36GL Die 03283
	171 / 8	02982		.531 (13.5)	.315 (8)	
16 (1.5)	172 / 6	02983	Black	.452 (11.5)	.236 (6)	K1GL, K32GL, K36GL, K30GL Die 03283
	172 / 8	02984		.531 (13.5)	.315 (8)	
	172 / 18	02985		.897 (22.8)	.688 (17.5)	
14 (2.5)	173 / 8	02986	Gray	.570 (14.5)	.315 (8)	K1GL, K32GL, K36GL, K30GL Die 03283
	173 / 18	02987		.945 (24)	.688 (17.5)	
12 (4)	174 / 12	02988	Orange	.681 (17.3)	.452 (11.5)	K32GL, K36GL, K30GL Die 03283
	174 / 18	02989		1.003 (25.5)	.688 (17.5)	
10 (6)	175 / 12	02990	Green	.787 (20)	.452 (11.5)	K32GL, K34GL, K36GL, K30GL Die 03283
	175 / 18	02991		1.024 (26)	.688 (17.5)	
8 (10)	176 / 12	02992	Brown	.843 (21.5)	.471 (12)	K28GL, K34GL, Die 03284
	176 / 18	02993		1.062 (27)	.688 (17.5)	
6 (16)	177 / 12	02994	Ivory	.925 (23.5)	.471 (12)	K28GL, K34GL Die 03284
	177 / 18	02995		1.141 (29)	.688 (17.5)	
4 (25)	178 / 18	02996	Black	1.181 (30)	.688 (17.5)	K28GL Die 03284

See pages 221 and 222 for recommended ferrule crimping tools.

# Insulated Twin Wire Ferrules



- Use to compress two separate conductors together in one ferrule to make chain bridges easy to install.
- Electrolytic copper and tin plating provide maximum conductivity and low contact resistance.

## SPECIFICATIONS

<b>Material</b>	Copper
<b>Surface</b>	Tin plated
<b>Insulation</b>	Polypropylene plastic

CONDUCTOR SIZE AWG (mm <sup>2</sup> )	CATALOG NUMBER	UPC NUMBER	COLOR	DIMENSIONS INCHES (mm)		RECOMMENDED CRIMPING TOOLS
				L1	L2	
2 x 20 (2 x 0.5)	869 / 8	02954	White	.591 (15)	.315 (8)	K32GL, K36GL, K30GL
2 x 18 (2 x 0.75)	870 / 8	02955	Gray	.591 (15)	.315 (8)	K32GL, K36GL, K30GL
	870 / 10	02956		.669 (17)	.394 (10)	
2 x 17 (2 x 1)	871 / 8	02957	Red	.591 (15)	.315 (8)	K32GL, K36GL, K30GL
	871 / 10	02958		.669 (17)	.394 (10)	
2 x 15 (2 x 1.5)	872 / 8	02959	Black	.630 (16)	.315 (8)	K32GL, K36GL, K30GL
	872 / 12	02960		.787 (20)	.471 (12)	
2 x 13 (2 x 2.5)	873 / 10	02961	Blue	.728 (18.5)	.394 (10)	K32GL, K36GL, K30GL
	873 / 13	02962		.846 (21.5)	.512 (13)	
2 x 11 (2 x 4)	874 / 12	02963	Gray	.906 (23)	.471 (12)	K28GL, K34GL, K36GL
2 x 10 (2 x 6)	875 / 14	02964	Yellow	1.024 (26)	.551 (14)	K28GL, K34GL,
2 x 8 (2 x 10)	876 / 14	02965	Red	1.024 (26)	.551 (14)	K28GL
2 x 5 (2 x 16)	877 / 14	02966	Blue	1.181 (30)	.551 (14)	K28GL

See pages 221 and 222 for recommended ferrule crimping tools.

See pages 221 and 222 for recommended ferrule crimping tools.