

# FERRULES

## Ferrules, insulated DIN 46 228, Part 4

Material: E-Cu  
 Surface galvanically tin plated  
 Insertion funnel of polypropylene  
 Temperature resistance: -35°C to +105°C

### Colour series I



Art. No.	Cross section/mm <sup>2</sup>	Colour	Pin length	Overall length	Pack/pcs.
46.140	0,14 N	brown	6	11	500
46.215	0,14 L	brown	8	13	500
46.000	0,25 N	light yellow	6	11	500
46.001	0,25 L	light yellow	8	13	500
46.002	0,34 N	light green	6	11	500
46.003	0,34 L	light green	8	13	500
46.004	0,5 K	white	6	12	500
46.005	0,5 N	white	8	14	500
46.006	0,5 HL	white	10	16	500
46.007	0,75 K	light blue	6	12	500
46.008	0,75 N	light blue	8	14	500
46.009	0,75 HL	light blue	10	16	500
46.010	0,75 L	light blue	12	18	500
46.011	1,0 K	red	6	12	500
46.012	1,0 N	red	8	14	500
46.013	1,0 HL	red	10	16	500
46.139	1,0 L	red	12	18	500
46.216	1,5 K	black	6	12	500
46.014	1,5 N	black	8	14	500
46.015	1,5 HL	black	10	16	500
46.016	1,5 HLS	black	12	18	500
46.017	1,5 L	black	18	24	500
46.018	2,5 N	grey	8	14	500
46.019	2,5 HL	grey	12	18	500
46.020	2,5 L	grey	18	24	500
46.021	4,0 N	orange	10	18	500
46.022	4,0 HL	orange	12	20	500
46.023	4,0 L	orange	18	26	100
46.024	6,0 N	green	12	20	100
46.025	6,0 L	green	18	26	100
46.026	10,0 N	brown	12	22	100
46.027	10,0 L	brown	18	28	100
46.028	16,0 N	ivory	12	24	100
46.029	16,0 L	ivory	18	28	100
46.030	25,0 N	black	16	30	50
46.031	25,0 HL	black	18	32	50
46.032	25,0 L	black	22	36	50
46.103	35,0 N	red	16	30	50
46.104	35,0 HL	red	18	32	50
46.105	35,0 L	red	25	39	50
46.106	50,0 N	blue	20	36	50
46.107	50,0 L	blue	25	41	50
46.108	70,0 N	yellow	21	37	25
46.110	95,0 N	red	25	44	25
46.111	120,0 N	blue	27	48	25
46.112	150,0 N	yellow	32	58	25

## Ferrules, insulated DIN 46 228, Part 4

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Insertion funnel of polypropylene

Temperature resistance: -35°C to +105°C

### Colour series II

Art. No.	Cross section/mm <sup>2</sup>	Colour	Pin length	Overall length	Pack/pcs.
46.142	0,14 N	grey	6	11	500
46.217	0,14 L	grey	8	13	500
46.033	0,25 N	light blue	6	11	500
46.034	0,25 L	light blue	8	13	500
46.035	0,34 N	turquoise	6	11	500
46.036	0,34 L	turquoise	8	13	500
46.037	0,5 K	orange	6	12	500
46.038	0,5 N	orange	8	14	500
46.039	0,5 HL	orange	10	16	500
46.040	0,75 K	white	6	12	500
46.041	0,75 N	white	8	14	500
46.042	0,75 HL	white	10	16	500
46.043	0,75 L	white	12	18	500
46.044	1,0 K	yellow	6	12	500
46.045	1,0 N	yellow	8	14	500
46.046	1,0 HL	yellow	10	16	500
46.141	1,0 L	yellow	12	18	500
46.228	1,5 K	red	6	12	500
46.047	1,5 N	red	8	14	500
46.048	1,5 HL	red	10	16	500
46.229	1,5 HLS	red	12	18	500
46.049	1,5 L	red	18	24	500
46.050	2,5 N	blue	8	14	500
46.051	2,5 HL	blue	12	18	500
46.052	2,5 L	blue	18	24	500
46.053	4,0 N	grey	10	18	500
46.054	4,0 HL	grey	12	20	500
46.055	4,0 L	grey	18	26	100
46.056	6,0 N	black	12	20	100
46.057	6,0 L	black	18	26	100
46.058	10,0 N	ivory	12	22	100
46.059	10,0 L	ivory	18	28	100
46.060	16,0 N	green	12	24	100
46.061	16,0 L	green	18	28	100
46.062	25,0 N	brown	16	30	50
46.063	25,0 HL	brown	18	32	50
46.064	25,0 L	brown	22	36	50
46.065	35,0 N	beige	16	30	50
46.066	35,0 HL	beige	18	32	50
46.067	35,0 L	beige	25	39	50
46.068	50,0 N	olive	20	36	50
46.069	50,0 L	olive	25	41	50
46.108	70,0 N	yellow	21	37	25
46.110	95,0 N	red	25	44	25
46.111	120,0 N	blue	27	48	25
46.112	150,0 N	yellow	32	58	25



## Ferrules, insulated DIN 46 228, Part 4

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 Temperature resistance: -35°C to +105°C

### Colour series DIN



Art. No.	Cross section/mm <sup>2</sup>	Colour	Pin length	Overall length	Pack/pcs.
46.070	0,25 N	violet	6	11	500
46.071	0,25 L	violet	8	13	500
46.072	0,34 N	pink	6	11	500
46.073	0,34 L	pink	8	13	500
46.004	0,5 K	white	6	12	500
46.005	0,5 N	white	8	14	500
46.006	0,5 HL	white	10	16	500
46.077	0,75 K	grey	6	12	500
46.078	0,75 N	grey	8	14	500
46.079	0,75 HL	grey	10	16	500
46.080	0,75 L	grey	12	18	500
46.011	1,0 K	red	6	12	500
46.012	1,0 N	red	8	14	500
46.013	1,0 HL	red	10	16	500
46.139	1,0 L	red	12	18	500
46.216	1,5 K	black	6	12	500
46.014	1,5 N	black	8	14	500
46.015	1,5 HL	black	10	16	500
46.016	1,5 HLS	black	12	18	500
46.017	1,5 L	black	18	24	500
46.050	2,5 N	blue	8	14	500
46.051	2,5 HL	blue	12	18	500
46.052	2,5 L	blue	18	24	500
46.053	4,0 N	grey	10	18	500
46.054	4,0 HL	grey	12	20	500
46.055	4,0 L	grey	18	26	100
46.094	6,0 N	yellow	12	20	100
46.095	6,0 L	yellow	18	26	100
46.096	10,0 N	red	12	22	100
46.097	10,0 L	red	18	28	100
46.098	16,0 N	blue	12	24	100
46.099	16,0 L	blue	18	28	100
46.100	25,0 N	yellow	16	30	50
46.101	25,0 HL	yellow	18	32	50
46.102	25,0 L	yellow	22	36	50
46.103	35,0 N	red	16	30	50
46.104	35,0 HL	red	18	32	50
46.105	35,0 L	red	25	39	50
46.106	50,0 N	blue	20	36	50
46.107	50,0 L	blue	25	41	50
46.108	70,0 N	yellow	21	37	25
46.110	95,0 N	red	25	44	25
46.111	120,0 N	blue	27	48	25
46.112	150,0 N	yellow	32	58	25

## TWIN - ferrules, insulated DIN 46 228, Part 4

Material: E-Cu

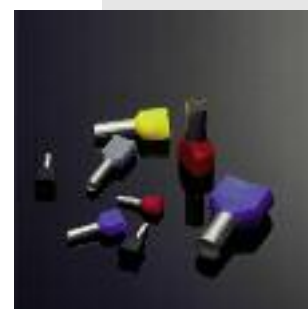
Surface galvanically tin plated

Insertion funnel of polypropylene

Temperature resistance: -35°C to +105°C

### All colour series

Art. No.	Cross section/mm <sup>2</sup>	Colour	Pin length	Overall length	Pack/pcs.
46.291	2 x 0,25 N	violet	8	15	500
46.292	2 x 0,25 N	light blue	8	15	500
46.293	2 x 0,34 N	turquoise	8	15	500
46.113	2 x 0,5 N	white	8	15	500
46.074	2 x 0,5 N	orange	8	15	500
46.300	2 x 0,75 N	light blue	8	15	500
46.220	2 x 0,75 N	white	8	15	500
46.114	2 x 0,75 N	grey	8	15	500
46.301	2 x 0,75 L	light blue	10	17	500
46.221	2 x 0,75 L	white	10	17	500
46.115	2 x 0,75 L	grey	10	17	500
46.116	2 x 1,0 N	red	8	15	500
46.075	2 x 1,0 N	yellow	8	15	500
46.117	2 x 1,0 L	red	10	17	500
46.076	2 x 1,0 L	yellow	10	17	500
46.294	2 x 1,0 XL	red	12	19	500
46.295	2 x 1,0 XL	yellow	12	19	500
46.296	2 x 1,0 XXL	red	18	25	500
46.297	2 x 1,0 XXL	yellow	18	25	500
46.118	2 x 1,5 N	black	8	16	500
46.222	2 x 1,5 N	red	8	16	500
46.119	2 x 1,5 L	black	12	20	500
46.224	2 x 1,5 L	red	12	20	500
46.298	2 x 1,5 XL	black	18	26	500
46.299	2 x 1,5 XL	red	18	26	500
46.120	2 x 2,5 N	blue	10	19	250
46.302	2 x 2,5 N	grey	10	19	250
46.121	2 x 2,5 L	blue	13	22	250
46.303	2 x 2,5 L	grey	13	22	250
46.227	2 x 4,0 N	orange	12	23	100
46.122	2 x 4,0 N	grey	12	23	100
46.304	2 x 6,0 N	green	14	25	100
46.225	2 x 6,0 N	black	14	25	100
46.123	2 x 6,0 N	yellow	14	25	100
46.305	2 x 10,0 N	brown	14	26	100
46.223	2 x 10,0 N	ivory	14	26	100
46.124	2 x 10,0 N	red	14	26	100
46.306	2 x 16,0 N	ivory	14	30	50
46.226	2 x 16,0 N	green	14	30	50
46.219	2 x 16,0 N	blue	14	30	50



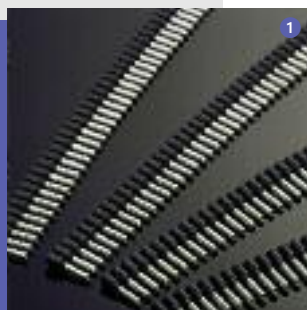
# FERRULES

## Ferrules, insulated DIN 46 228, Part 4 in strip and tape form

For processing in all common and commercially available processing machines

Material: E-Cu  
Surface galvanically tin plated  
Insertion funnel of polypropylene  
Temperature resistance: -35°C to +105°C

### All colour series



Art. No.	Cross section/mm <sup>2</sup>	Colour	Pin length	Overall length	Packing	Pack/pcs.
46.308	0,5 N	white	8	14	Strips (10x50)	500
46.309	0,5 N	orange	8	14	Strips (10x50)	500
46.310	0,75 N	grey	8	14	Strips (10x50)	500
46.311	0,75 N	white	8	14	Strips (10x50)	500
46.312	0,75 N	light blue	8	14	Strips (10x50)	500
46.313	1,0 N	red	8	14	Strips (10x50)	500
46.314	1,0 N	yellow	8	14	Strips (10x50)	500
46.315	1,5 N	black	8	14	Strips (10x50)	500
46.316	1,5 N	red	8	14	Strips (10x50)	500
46.317	2,5 N	blue	8	14	Strips (10x50)	500
46.318	2,5 N	grey	8	14	Strips (10x50)	500
46.331	0,5 N	white	8	14	Small spool	1100
46.332	0,5 N	orange	8	14	Small spool	1100
46.333	0,75 N	grey	8	14	Small spool	1100
46.334	0,75 N	white	8	14	Small spool	1100
46.335	0,75 N	light blue	8	14	Small spool	1100
46.336	1,0 N	red	8	14	Small spool	800
46.337	1,0 N	yellow	8	14	Small spool	800
46.338	1,5 N	black	8	14	Small spool	800
46.339	1,5 N	red	8	14	Small spool	800
46.340	2,5 N	blue	8	14	Small spool	500
46.341	2,5 N	grey	8	14	Small spool	500
46.361	0,5 N	white	8	14	Medium spool	10000
46.362	0,5 N	orange	8	14	Medium spool	10000
46.363	0,75 N	grey	8	14	Medium spool	10000
46.364	0,75 N	white	8	14	Medium spool	10000
46.365	0,75 N	light blue	8	14	Medium spool	10000
46.366	1,0 N	red	8	14	Medium spool	7500
46.230	1,0 N	yellow	8	14	Medium spool	7500
46.367	1,5 N	black	8	14	Medium spool	7500
46.231	1,5 N	red	8	14	Medium spool	7500
46.232	2,5 N	blue	8	14	Medium spool	5000
46.368	2,5 N	grey	8	14	Medium spool	5000

## Ferrules, insulated, for short circuit and earth fault current proof cables

Material: E-Cu

Surface galvanically tin plated

Insertion funnel of polypropylene

Temperature resistance: -35°C to +105°C

Art. No.	Cross section/mm <sup>2</sup>	Colour	Pin length	Overall length	Pack/pcs.
46.259	1,5 N	black	8	18	100
46.260	1,5 L	black	10	20	100
46.261	2,5 N	blue	8	18	100
46.262	2,5 L	blue	12	22	100
46.263	4,0 N	grey	10	20	100
46.264	6,0 N	yellow	12	23	100
46.265	10,0 N	red	12	24	100
46.266	16,0 N	blue	12	26	100



# FERRULES

## Dispensers with insulated ferrules

### Small

#### Colour series I **ESD 1**

Art. No.	53.100	
Contents	Cross section/mm <sup>2</sup>	Colour
50	0,5 N	white
100	0,75 N	light blue
100	1,0 N	red
100	1,5 N	black
50	2,5 N	grey

#### Colour series II **ESD 11**

Art. No.	53.102	
Contents	Cross section/mm <sup>2</sup>	Colour
50	0,5 N	orange
100	0,75 N	white
100	1 N	yellow
100	1,5 N	red
50	2,5 N	blue

#### Colour series DIN **ESD 111**

Art. No.	53.098	
Contents	Cross section/mm <sup>2</sup>	Colour
50	0,5 N	white
100	0,75 N	grey
100	1,0 N	red
100	1,5 N	black
50	2,5 N	blue

#### Empty dispenser, 5 divisions, printed **ESD 3**

Art. No.	53.101	
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## Dispensers with insulated ferrules

### Large

#### Colour series I **ESD 2**

Art. No.	53.103	
Contents	Cross section/mm <sup>2</sup>	Colour
50	4,0 N	orange
20	6,0 N	green
20	10,0 N	brown
10	16,0 N	ivory

#### Colour series II **ESD 22**

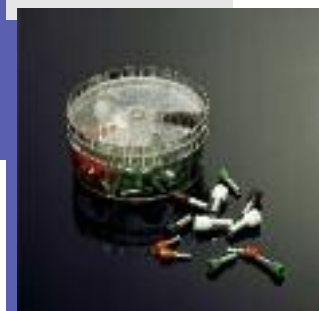
Art. No.	53.105	
Contents	Cross section/mm <sup>2</sup>	Colour
50	4,0 N	grey
20	6,0 N	black
20	10,0 N	ivory
10	16,0 N	green

#### Colour series DIN **ESD 222**

Art. No.	53.099	
Contents	Cross section/mm <sup>2</sup>	Colour
50	4,0 N	grey
20	6,0 N	yellow
20	10,0 N	red
10	16,0 N	blue

#### Empty dispenser, 4 divisions, printed **ESD 4**

Art. No.	53.104	
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## Dispensers with insulated TWIN ferrules

### Small

#### Colour series I **ESD 5**

Art. No.	53.108	
Contents	Cross section/mm <sup>2</sup>	Colour
50	2 x 0,75 N	light blue
50	2 x 1,0 N	red
50	2 x 1,5 N	black
50	2 x 2,5 N	grey

#### Colour series II **ESD 55**

Art. No.	53.107	
Contents	Cross section/mm <sup>2</sup>	Colour
50	2 x 0,75 N	white
50	2 x 1,0 N	yellow
50	2 x 1,5 N	red
50	2 x 2,5 N	blue

#### Colour series DIN **ESD 555**

Art. No.	53.106	
Contents	Cross section/mm <sup>2</sup>	Colour
50	2 x 0,75 N	grey
50	2 x 1,0 N	red
50	2 x 1,5 N	black
50	2 x 2,5 N	blue

#### Empty dispenser, 4 divisions, neutral lid **ESD 4 - Neutral**

Art. No.	53.112	
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## Dispensers with insulated TWIN ferrules

### Large

#### Colour series I **ESD A**

Art. No.	53.109	
Contents	Cross section/mm <sup>2</sup>	Colour
30	2 x 1,5 N	black
30	2 x 2,5 N	grey
20	2 x 4,0 N	orange
10	2 x 6,0 N	green

#### Colour series II **ESD B**

Art. No.	53.110	
Contents	Cross section/mm <sup>2</sup>	Colour
30	2 x 1,5 N	red
30	2 x 2,5 N	blue
20	2 x 4,0 N	grey
10	2 x 6,0 N	black

#### Colour series DIN **ESD C**

Art. No.	53.111	
Contents	Cross section/mm <sup>2</sup>	Colour
30	2 x 1,5 N	black
30	2 x 2,5 N	blue
20	2 x 4,0 N	grey
10	2 x 6,0 N	yellow

#### Empty dispenser, 4 divisions, neutral lid **ESD 4 - Neutral**

Art. No.	53.112	
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## Ferrules non-insulated, to DIN 46 228 Part 1

Material: E-Cu, tin plated



Art. No.	Cross section/mm <sup>2</sup>	Length	Pack/pcs.
46.145	0,25-0,34	5	1000
46.146	0,25-0,34	7	1000
46.147	0,5	6	1000
46.148	0,5	8	1000
46.149	0,5	10	1000
46.150	0,75	6	1000
46.151	0,75	8	1000
46.152	0,75	10	1000
46.153	0,75	15	1000
46.154	1,0	6	1000
46.155	1,0	8	1000
46.156	1,0	10	1000
46.157	1,0	12	1000
46.158	1,0	15	1000
46.159	1,5	7	1000
46.160	1,5	10	1000
46.161	1,5	12	1000
46.162	1,5	15	1000
46.163	1,5	18	1000
46.164	2,5	7	1000
46.165	2,5	10	1000
46.166	2,5	12	1000
46.167	2,5	15	1000
46.168	2,5	18	1000
46.170	4,0	9	1000
46.171	4,0	12	1000
46.172	4,0	15	1000
46.173	4,0	18	1000
46.174	4,0	20	1000
46.175	6,0	10	250
46.176	6,0	12	250
46.177	6,0	15	250
46.178	6,0	18	250
46.179	6,0	20	250
46.180	10,0	12	250
46.181	10,0	15	250
46.182	10,0	18	250
46.183	10,0	25	250
46.184	16,0	12	250
46.185	16,0	15	250
46.186	16,0	18	250
46.187	16,0	25	250
46.188	16,0	32	250
46.189	25,0	12	250
46.190	25,0	15	250
46.191	25,0	18	250
46.192	25,0	25	250
46.193	25,0	32	250
46.194	35,0	18	100
46.195	35,0	25	100
46.196	35,0	32	100
46.197	50,0	18	100
46.198	50,0	22	100
46.199	50,0	25	100
46.200	50,0	32	100
46.201	70,0	25	100
46.203	70,0	32	100
46.204	95,0	25	100
46.206	95,0	32	100
46.207	120,0	32	100
46.209	120,0	40	100
46.210	150,0	32	100
46.212	150,0	40	100
46.214	185,0	40	100