

Round wires according to EN 50164-2, for use in lightning protection and earth-termination systems



DEHNalu wire

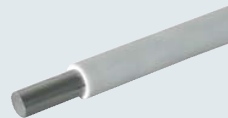


Part No.	840 008	840 108	840 018	840 028	840 010
Ø Conductor	8 mm	8 mm	8 mm	8 mm	10 mm
Cross section	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	78 mm <sup>2</sup>
Material	AlMgSi	AlMgSi	AlMgSi	AlMgSi	Al
Characteristics	semi-rigid	semi-rigid	soft-torsionable	soft-torsionable	soft-torsionable
Standard	EN 50164-2	EN 50164-2	EN 50164-2	EN 50164-2	EN 50164-2
Coil weight	approx. 20 kg	approx. 3 kg	approx. 20 kg	approx. 3 kg	approx. 21 kg
Conductor length	148 m	21 m	148 m	21 m	100 m

Al and AlMgSi must not be installed directly (without distance) on, in, or under plaster, mortar or concrete, and not in soil.

DEHNalu wire with plastic coating

Wire with halogen-free, frost-resistant and UV stabilised plastic coating as additional mechanical protection/corrosion protection e.g. for installation behind facades.



Suitable for installation on, in and under plaster, mortar or concrete.

Part No.	840 118
Ø Conductor	8 mm
Cross section	50 mm <sup>2</sup>
Material	AlMgSi
Characteristics	soft
Standard	EN 50164-2
Ø Outer	11 mm
Coating material	plastic
Coating thickness	1.5 mm
Coil weight	approx. 20 kg
Conductor length	100 m

DEHNcupal wire

New composite material.

Lighter than copper.

For use above ground as air-termination and down conductor, or for equipotential bonding.



Part No.	833 008
Ø Conductor	8 mm
Cross section	50 mm <sup>2</sup>
Material	Al / Cu
Characteristics	soft-torsionable
Standard	EN 62561-2
Cu coating	min. 0.26 mm
Coil weight	approx. 20 kg
Conductor length	approx. 110 m

Copper wire



Part No.	830 008	830 108	830 038
Ø Conductor	8 mm	8 mm	8 mm
Cross section	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>
Material	Cu	Cu	Cu
Characteristics	soft F20	soft F20	semi-rigid F25
Standard	EN 50164-2	EN 50164-2	EN 50164-2
Short-circuit current (50 Hz) (1 s; ≤ 300 °C)	9.8 kA	9.8 kA	9.8 kA
Coil weight	approx. 45 kg	approx. 9 kg	approx. 45 kg
Conductor length	100 m	20 m	100 m

## Steel wire



With zinc coating  $\geq 50 \mu\text{m}$  average (approx. 350 g/m<sup>2</sup>)

Part No.	800 008	800 010	800 310
Ø Conductor	8 mm	10 mm	10 mm
Cross section	50 mm <sup>2</sup>	78 mm <sup>2</sup>	78 mm <sup>2</sup>
Material	St/tZn	St/tZn	St/tZn
Standard	EN 50164-2	EN 50164-2	EN 50164-2
Short-circuit current (50 Hz) (1 s; $\leq 300 \text{ }^\circ\text{C}$ )	—	5.5 kA	5.5 kA
Coil weight	approx. 50 kg	approx. 50 kg	approx. 18.5 kg
Conductor length	127 m	81 m	30 m

## Steel wire with plastic coating



Plastic coating is an additional mechanical protection/corrosion protection e.g. at connections to the lightning protection system

Part No.	800 108	800 110
Ø Conductor	8 mm	10 mm
Cross section	50 mm <sup>2</sup>	78 mm <sup>2</sup>
Material	St/tZn	St/tZn
Standard	EN 50164-2	EN 50164-2
Ø Outer	11 mm	13 mm
Coating material	plastic	plastic
Coating thickness	1.5 mm	1.5 mm
Coil weight	approx. 33 kg	approx. 34 kg
Conductor length	75 m	50 m

## Stainless steel wire



Stainless steel wire (Rd 10 mm) for use in soil has to be made of StSt (V4A) with a molybdenum percentage of  $> 2 \%$ , e.g. 1.4571, in accordance with EN 50164-2, IEC/EN 62305-3 and DIN VDE 0151.

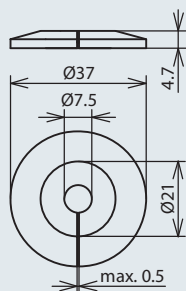
Part No.	860 908	860 910	860 920	860 008	860 010	860 020
Ø Conductor	8 mm	10 mm	10 mm	8 mm	10 mm	10 mm
Cross section	50 mm <sup>2</sup>	78 mm <sup>2</sup>	78 mm <sup>2</sup>	50 mm <sup>2</sup>	78 mm <sup>2</sup>	78 mm <sup>2</sup>
Material	StSt	StSt	StSt	StSt (V4A)	StSt (V4A)	StSt (V4A)
Material No.	1.4301 / 1.4303	1.4301 / 1.4303	1.4301 / 1.4303	1.4571 / 1.4404	1.4571 / 1.4404	1.4571 / 1.4404
ASTM / AISI:	—	—	—	316Ti / 316L	316Ti / 316L	316Ti / 316L
Standard	EN 50164-2	EN 50164-2	EN 50164-2	EN 50164-2	EN 50164-2	EN 50164-2
Short-circuit current (50 Hz) (1 s; $\leq 300 \text{ }^\circ\text{C}$ )	—	—	—	—	2.9 kA	2.9 kA
Coil weight	approx. 50 kg	approx. 50 kg	approx. 12 kg	approx. 50 kg	approx. 50 kg	approx. 12 kg
Conductor length	125 m	80 m	20 m	125 m	80 m	20 m

Conductor materials will be delivered in original coil weights only.

More conductor materials and components as specified in the standard series EN 50164-2 upon request.

## Dripping Water Protective Collars

Collars for preventing rain water from draining along the round wire. Pollution of the façade thus can be avoided.



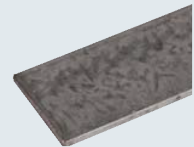
Part No.	276 056	276 057
Material	plastic	plastic
Conductor Rd	8 mm	8 mm
Colour	grey	brown
Diameter	37 mm	37 mm
Bore	7.5 mm	7.5 mm

Strips according to EN 50164-2, for use in earth-termination and lightning protection systems as well as for ring equipotential bonding.



Steel strip

Zinc coating  $\geq 70 \mu\text{m}$  average (approx.  $500 \text{ g/m}^2$ )



Part No.	810 225	810 335	852 335	810 304	810 404	810 405
Width	20 mm	30 mm	30 mm	30 mm	40 mm	40 mm
Thickness	2.5 mm	3.5 mm	3.5 mm	4 mm	4 mm	5 mm
Cross section	50 mm <sup>2</sup>	105 mm <sup>2</sup>	105 mm <sup>2</sup>	120 mm <sup>2</sup>	160 mm <sup>2</sup>	200 mm <sup>2</sup>
Material	St/tZn	St/tZn	St/tZn	St/tZn	St/tZn	St/tZn
Standard	EN 50164-2	EN 50164-2	EN 50164-2	EN 50164-2	EN 50164-2	EN 50164-2
Short-circuit current (50 Hz) (1 s; $\leq 300 \text{ }^\circ\text{C}$ )	—	7.3 kA	7.3 kA	8.4 kA	11.2 kA	14 kA
Coil weight	approx. 40 kg	approx. 42 kg	approx. 21 kg	approx. 50 kg	approx. 50 kg	approx. 50 kg
Conductor length	100 m	50 m	25 m	52 m	40 m	30 m

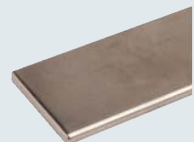
Copper strip



Part No.	831 225
Width	20 mm
Thickness	2.5 mm
Cross section	50 mm <sup>2</sup>
Material	Cu
Standard	EN 50164-2
Short-circuit current (50 Hz) (1 s; $\leq 300 \text{ }^\circ\text{C}$ )	9.8 kA
Coil weight	approx. 45 kg
Conductor length	100 m

Stainless steel strip

Stainless steel strip for use in soil has to be made of StSt (V4A) with a molybdenum percentage of  $> 2 \%$ , e.g. 1.4571, 1.4404, in accordance with EN 50164-2, IEC/EN 62305-3 and DIN VDE 0151.

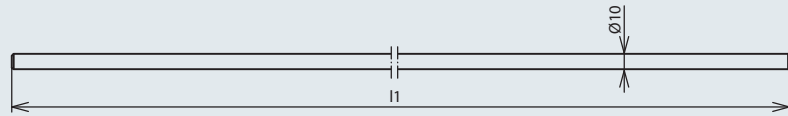


Part No.	860 925	860 900	860 325	860 335
Width	30 mm	30 mm	30 mm	30 mm
Thickness	3.5 mm	3.5 mm	3.5 mm	3.5 mm
Cross section	105 mm <sup>2</sup>	105 mm <sup>2</sup>	105 mm <sup>2</sup>	105 mm <sup>2</sup>
Material	StSt	StSt	StSt (V4A)	StSt (V4A)
Material No.	1.4301 / 1.4303	1.4301 / 1.4303	1.4571 / 1.4404	1.4571 / 1.4404
ASTM / AISI:	—	—	316Ti / 316L	316Ti / 316L
Standard	EN 50164-2	EN 50164-2	EN 50164-2	EN 50164-2
Short-circuit current (50 Hz) (1 s; $\leq 300 \text{ }^\circ\text{C}$ )	—	—	3.9 kA	3.9 kA
Coil weight	approx. 21 kg	approx. 50 kg	approx. 21 kg	approx. 50 kg
Conductor length	25 m	60 m	25 m	60 m

Strips in other dimensions and materials upon request.

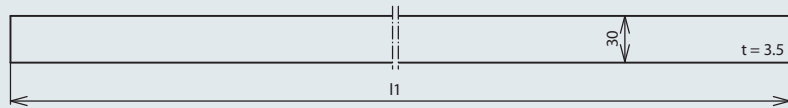
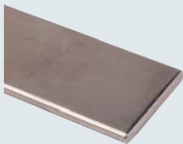
Terminal lugs straightened, for connecting of down conductors to the earth-termination system, made of corrosion resistant stainless steel StSt (V4A)

## Round wires



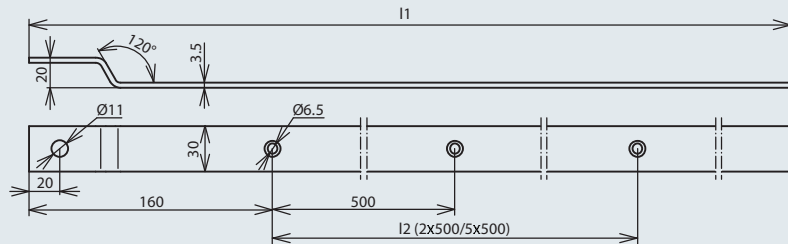
Part No.	860 110	860 115	860 130
Material	StSt (V4A)	StSt (V4A)	StSt (V4A)
Material No.	1.4571 / 1.4404	1.4571 / 1.4404	1.4571 / 1.4404
ASTM / AISI:	316Ti / 316L	316Ti / 316L	316Ti / 316L
Length (l1)	1000 mm	1500 mm	3000 mm
Dimension	Ø10 mm	Ø10 mm	Ø10 mm
Cross section	78 mm <sup>2</sup>	78 mm <sup>2</sup>	78 mm <sup>2</sup>
Standard	EN 50164-2	EN 50164-2	EN 50164-2

## Flat strips



Part No.	860 215	860 230
Material	StSt (V4A)	StSt (V4A)
Material No.	1.4571 / 1.4404	1.4571 / 1.4404
ASTM / AISI:	316Ti / 316L	316Ti / 316L
Length (l1)	1500 mm	3000 mm
Dimension	30x3.5 mm	30x3.5 mm
Cross section	105 mm <sup>2</sup>	105 mm <sup>2</sup>
Standard	EN 50164-2	EN 50164-2

## Flat strips angled

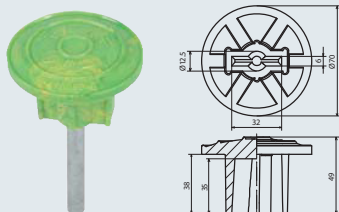


For direct wall mounting (without distance) with bores for countersunk head screws

Part No.	860 315	860 330
Material	StSt (V4A)	StSt (V4A)
Material No.	1.4571 / 1.4404	1.4571 / 1.4404
ASTM / AISI:	316Ti / 316L	316Ti / 316L
Length (l1)	1500 mm	3000 mm
Dimension	30x3.5 mm	30x3.5 mm
Connection	isolating clamp or clamping screw connector	isolating clamp or clamping screw connector
Fixing	[3x] Ø6.5 mm	[6x] Ø6.5 mm
Cross section	105 mm <sup>2</sup>	105 mm <sup>2</sup>
Standard	EN 50164-2	EN 50164-2

Other dimensions available upon request

## Accessory for Terminal Lugs Straightened/Angled



### Protective Cap for Terminal Lugs

For attaching on round wires or strips  
A striking marker (as required according to DIN 18014) and an accident prevention during the construction phase

Part No.	478 099
Material	PVC
Diameter	70 mm
Support Fl	30x3.5 mm
Support Rd	10 mm
Colour	green/yellow

Cables for use in lightning protection and earth-termination systems

### Aluminium cable

e.g. for spanning in case of isolated air-termination systems (DEHNiso-Combi)



Part No.	840 050
Cross section	50 mm <sup>2</sup>
Cable structure qty x Ø wire	19 x 1.8 mm
Material	Al
Standard	EN 50164-2
Outer Ø	9 mm
Coil weight	approx. 13.5 kg
Conductors length	100 m

Note: Al must not be installed directly (without distance) on, in or under plaster, mortar or concrete, and not in soil.

### Steel cable

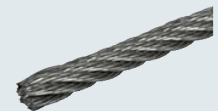
e.g. for equipotential bonding



Part No.	801 050
Cross section	42 mm <sup>2</sup>
Cable structure qty x Ø wire	[6x] 19 x 0.65 mm
Material	St/gal Zn
Outer Ø	10 mm
Coil weight	approx. 35 kg
Conductors length	100 m

### Stainless steel cable

e.g. for equipotential bonding



Part No.	850 008	850 010
Cross section	27 mm <sup>2</sup>	42 mm <sup>2</sup>
Cable structure qty x Ø wire	[7x] 19 x ca. 0.59 mm	[7x] 19 x ca. 0.68 mm
Material	StSt (V4A)	StSt (V4A)
Material No.	1.4571 / 1.4404	1.4571 / 1.4404
ASTM / AISI:	316Ti / 316L	316Ti / 316L
Outer Ø	8 mm	10 mm
Coil weight	approx. 23.5 kg	approx. 39.5 kg
Conductors length	100 m	100 m

### Copper cable



Part No.	832 739	832 740	832 192	832 193	832 095	832 120
Cross section	50 mm <sup>2</sup>	50 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>	95 mm <sup>2</sup>	120 mm <sup>2</sup>
Cable structure qty x Ø wire	19 x 1.8 mm	19 x 1.8 mm	19 x 2.1 mm	19 x 2.1 mm	19 x 2.5 mm	19 x 2.8 mm
Material	Cu	Cu	Cu	Cu	Cu	Cu
Standard	EN 50164-2	EN 50164-2	EN 50164-2	EN 50164-2	EN 50164-2	EN 50164-2
Outer Ø	9 mm	9 mm	10.5 mm	10.5 mm	12.5 mm	14.5 mm
Short-circuit current (50 Hz) (1 s; ≤ 300 °C)	9.8 kA	9.8 kA	13.7 kA	13.7 kA	18.5 kA	23.4 kA
Coil weight	approx. 22 kg	approx. 44 kg	approx. 30 kg	approx. 60 kg	approx. 42 kg	approx. 53 kg
Conductors length	50 m	100 m	50 m	100 m	50 m	50 m
Stock No.	6145-12-336-0722	—	—	—	—	—

### Copper cable tinned



NEW

Part No.	832 839	832 202	832 292	832 295	832 320
Cross section	50 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>	95 mm <sup>2</sup>	120 mm <sup>2</sup>
Cable structure qty x Ø wire	19 x 1.8 mm	19 x 2.1 mm	19 x 2.1 mm	19 x 2.5 mm	19 x 2.8 mm
Material	Cu/gal Sn	Cu/gal Sn	Cu/gal Sn	Cu/gal Sn	Cu/gal Sn
Standard	EN 50164-2	DIN EN 50164-2	EN 50164-2	EN 50164-2	EN 50164-2
Outer Ø	9 mm	10.5 mm	10.5 mm	12.5 mm	14.5 mm
Short-circuit current (50 Hz) (1 s; ≤ 150 °C)	7.2 kA	10.1 kA	10.1 kA	13.8 kA	17.3 kA
Coil weight	approx. 44 kg	approx. 30 kg	approx. 60 kg	approx. 42 kg	approx. 53 kg
Conductors length	100 m	50 m	100 m	50 m	50 m

Cables in other dimensions and materials upon request.