



HELUKABEL®

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PROVIDER!**



 **Products for the Automotive Industry**

Cables and Accessories for Earthing and EMC Applications

ENGINEERING
EARTHING

HELUCHAIN PROFINET 24V POWER PVC /+ FE PVC



HELUCHAIN PROFINET 24V POWER PVC 4x0,75 QMM / 11008504 300/500 V C€



HELUCHAIN PROFINET 24V POWER + FE PVC 5x0,75 QMM / 11008505 300/500 V C€

Technical data

- PROFINET-conforming, highly flexible, PVC drag chain cable acc. to DIN EN 60445 (VDE 0197).
- Temperature range:

flexing	0°C to +90°
fixed installation	-30°C to +90°C
- Nominal voltage: U0/U: 300/500 V
- Minimum bending radius:

flexing	12x cable Ø
fixed installation	4x cable Ø

Cable structure

- Conductor: copper stranded wire, bare, finely-stranded acc. to DIN VDE 0295 class 5 / IEC 60228 class 5
- Core insulation: PVC acc. to DIN VDE 0207-363-3 / DIN EN 50363-3 (compound type T13)
- Core identification: brown (L1), blue (N1), black (L2), white (N2), 5-core pink (FE)
- Non-woven wrapping: min. 25 % overlap
- Outer sheath: PVC acc. to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1 (compound type TM3)
- Sheath colour:

HELUCHAIN PROFINET 24V POWER PVC (without functional earthing conductor)	black (RAL 9005), with metre markings
HELUCHAIN PROFINET 24V POWER + FE PVC (with functional earthing conductor)	gray (RAL 7001), with metre markings

Properties

- Drag chain compatible:

max. travel distance 10 m / max. speed 3 m/s
max. acceleration 3m/s ² / max. cycles 2 million
- Free from: silicone, cadmium, paint-wetting impairment substances
- Resistant to: most oils

Application areas:

- In dry / damp rooms (not for outdoors)
- PROFINET-conforming, highly flexible, PVC drag chain cable
- Measurement and control systems with frequent lifting and bending stress in the automotive industry
- Machine and tool construction
- Permanently moving machine parts

HELUCHAIN PROFINET 24V POWER PVC

Item no:	No. cores x nominal cross-sec. mm ²	Outer-Ø mm ²	Copper no. kg/km:	Weight kg/km:
11008504	4 x 0.75	6.4	28.8	66.0
11008506	4 x 1.5	7.7	58.0	109.0
11008508	4 x 2.5	9.3	96.0	178.0

HELUCHAIN PROFINET 24V POWER + FE PVC

11008505	5 x 0.75	7.0	36.0	80.0
11008507	5 x 1.5	8.4	72.0	131.0
11008509	5 x 2.5	10.2	120.0	221.0

NEW PRODUCTS FOR EARTHING / EMC

STRANDED COPPER WIRE

Structure

Copper conductor, tinned, acc. to DIN VDE 0295 class 2, multistranded
Copper conductor, tinned, acc. to DIN VDE 0295 class 5, finely stranded.

Minimum bending radius: fixed installation, 6x outer Ø

Application areas:

earthing machines / equipment with corrosion protection
protective equipotential bonding in CBN ring-conductor system and others in the automotive industry

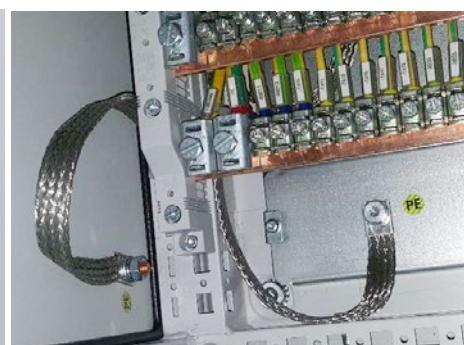
- **CBN** = common bonding network

Stranded construction improves mechanical properties:
more flexible, consistent diameter, and compact structure.



Class 2 Item no:	Class 5 Item no:	Nominal cross-sec. mm²	Outer-Ø mm2	Weight Copper no. kg/km:
11008930	11008942	6	3.1	58
11008931	11008540	10	4.0	96
11008932	11008541	16	5.1	154
11008933	11008943	25	6.3	240
11008934	11008944	35	7.5	336
11008935	11008945	50	9.0	480
11008936	11008946	70	10.8	672
11008937	11008947	95	12.8	912
11008938	11008948	120	14.1	1152
11008939	11008949	150	15.8	1440
11008940	11008950	185	17.5	1776
11008941	11008951	240	20.1	2304

CU- EARTHING STRAP



CU- earthing strap

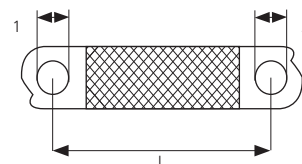
- for EMC applications (interference elimination)
- rounded contacts

Material

- Copper, tinned

Technical data

- Temperature range: -20°C / +125°C
- Individual wire thickness: 0.2 mm
- Contacts made of seamless pressed ferrules



Item no:	Description	Cross-sec. mm²	Length L mm	Hole 1 mm	Hole 2 mm
11008412	HELU-MB-CUV- 6-150-0406-R	6	150	4.5	6.5
11008411	HELU-MB-CUV- 6-500-0606-R	6	500	6.5	6.5
11008421	HELU-MB-CUV-10-200-0606-R	10	200	6.5	6.5
11008422	HELU-MB-CUV-10-200-0808-R	10	200	8.5	8.5
11008423	HELU-MB-CUV-10-300-0606-R	10	300	6.5	6.5
11008424	HELU-MB-CUV-10-300-0808-R	10	300	8.5	8.5
11008425	HELU-MB-CUV-10-400-0808-R	10	400	8.5	8.5
11008442	HELU-MB-CUV-16-100-0808-R	16	100	8.5	8.5
11008378	HELU-MB-CUV-16-200-0808-R	16	200	8.5	8.5
11008379	HELU-MB-CUV-16-300-0808-R	16	300	8.5	8.5
11008441	HELU-MB-CUV-16-400-0808-R	16	400	8.5	8.5
11008461	HELU-MB-CUV-25-200-0808-R	25	200	8.5	8.5
11008462	HELU-MB-CUV-25-300-0808-R	25	300	8.5	8.5

Application areas:

- Automotive industry
- Robotics
- Control cabinet construction

Note

Available in other lengths and sizes upon request

Versatile HELUTOOL Crimpset 5 in 1

High-quality crimping tool with 5 inserts for insulated and uninsulated connections.



Item no:
11008887

Advantages:

- Always the right tool at hand
- Fast and easy changing of the inserts with a quick release fastener — no additional tools needed!
- Locking mechanism with release
- 2-component hand grip
- High-quality plastic case with foam inlay for storage
- Wire end ferrule crimping profile is designed for fine-wired and compact conductors
- Easy handling through optimised pressing contour
- Length: 250 mm; weight: 590 g

Uses:

- Crimping insert for insulated cable lugs 0.5 - 6 mm²
- Crimping insert for uninsulated cable lugs 0.5 - 10 mm²
- Crimping insert for uninsulated female push-on terminal
- 0.5 - 2.5 mm²; tab width 4.8 mm & 6.3 mm
- Crimping insert for wire end ferrules 0.25 - 16 mm² (also for fine-wired and compact conductors)
- Crimping insert for wire end ferrules 25 - 50 mm² (also for fine-wired and compact conductors)

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■ CRIMPING TOOL - VERSATILE, HIGH QUALITY

ADI WIRE END FERRULES, INSULATED, DIN 46228, CSA /US

Properties

- Prevents dismantled wires from fraying
- Funnel-shaped plastic collar
- Easier to slide onto the wires
- Colour code acc. to DIN, ZF, and Telemecanique

Material

- Ferrules: copper, tinned surface
- Insulating collar: polypropylene

Technical data

- Temperature range: up to +105°C
short term: up to +120°C



Note

Classified by conductor cross-section according to DIN 46228: up to 50 mm² according to nominal size and DIN colour code - no specification over 50 mm²; classification according to appropriate size possible.

Item no:	Size mm ²	Colour	Colour code	L mm	I mm	PU
91852	0.25 / normal	violet	TM	10.4	6	500
91853	0.25 / normal	light blue	Z+F	10.4	6	500
91854	0.25 / long	violet	TM	12.4	8	500
91855	0.25 / long	light blue	Z+F	12.4	8	500
91856	0.34 / normal	pink	TM	10.4	6	500
91857	0.34 / normal	turquoise	Z+F	10.4	6	500
91858	0.34 / long	pink	TM	12.4	8	500
91859	0.34 / long	turquoise	Z+F	12.4	8	500
91860	0.5 / short	white	DIN	12	6	500
91861	0.5 / short	orange	Z+F	12	6	500
91350	0.5 / normal	white	DIN	14	8	500
91383	0.5 / normal	orange	Z+F	14	8	500
91862	0.5 / mid-length	white	DIN	16	10	500
91863	0.5 / mid-length	orange	Z+F	16	10	500
91864	0.75 / short	light blue	TM	12.4	6	500
91865	0.75 / short	white	Z+F	12.4	6	500
94023	0.75 / short	grey	DIN	12.4	6	500
91351	0.75 / normal	light blue	TM	14.6	8	500
91384	0.75 / normal	white	Z+F	14.6	8	500
93030	0.75 / normal	grey	DIN	14.6	8	500
91866	0.75 / mid-length	light blue	TM	16.4	10	500
91867	0.75 / mid-length	white	Z+F	16.4	10	500
91868	0.75 / mid-length	grey	DIN	16.4	10	500
91869	0.75 / long	light blue	TM	18.4	12	500
91870	0.75 / long	white	Z+F	18.4	12	500
91871	0.75 / long	grey	DIN	18.4	12	500
91872	1.0 / short	red	DIN	12.4	6	500
91873	1.0 / short	yellow	Z+F	12.4	6	500
91352	1.0 / normal	red	DIN	14.6	8	500
91385	1.0 / normal	yellow	Z+F	14.6	8	500
91874	1.0 / mid-length	red	DIN	16.4	10	500
91875	1.0 / mid-length	yellow	Z+F	16.4	10	500
91876	1.0 / long	red	DIN	18.4	12	500
91877	1.0 / long	yellow	Z+F	18.4	12	500
91353	1.5 / normal	black	DIN	14.6	8	500
91386	1.5 / normal	red	Z+F	14.6	8	500
91878	1.5 / mid-length	black	DIN	16.4	10	500
91879	1.5 / mid-length	red	Z+F	16.4	10	500
91880	1.5 / long	black	DIN	24.4	18	500
91881	1.5 / long	red	Z+F	24.4	18	500
91354	2.5 / normal	grey	TM	15.2	8	500
91387	2.5 / normal	blue	DIN	15.2	8	500

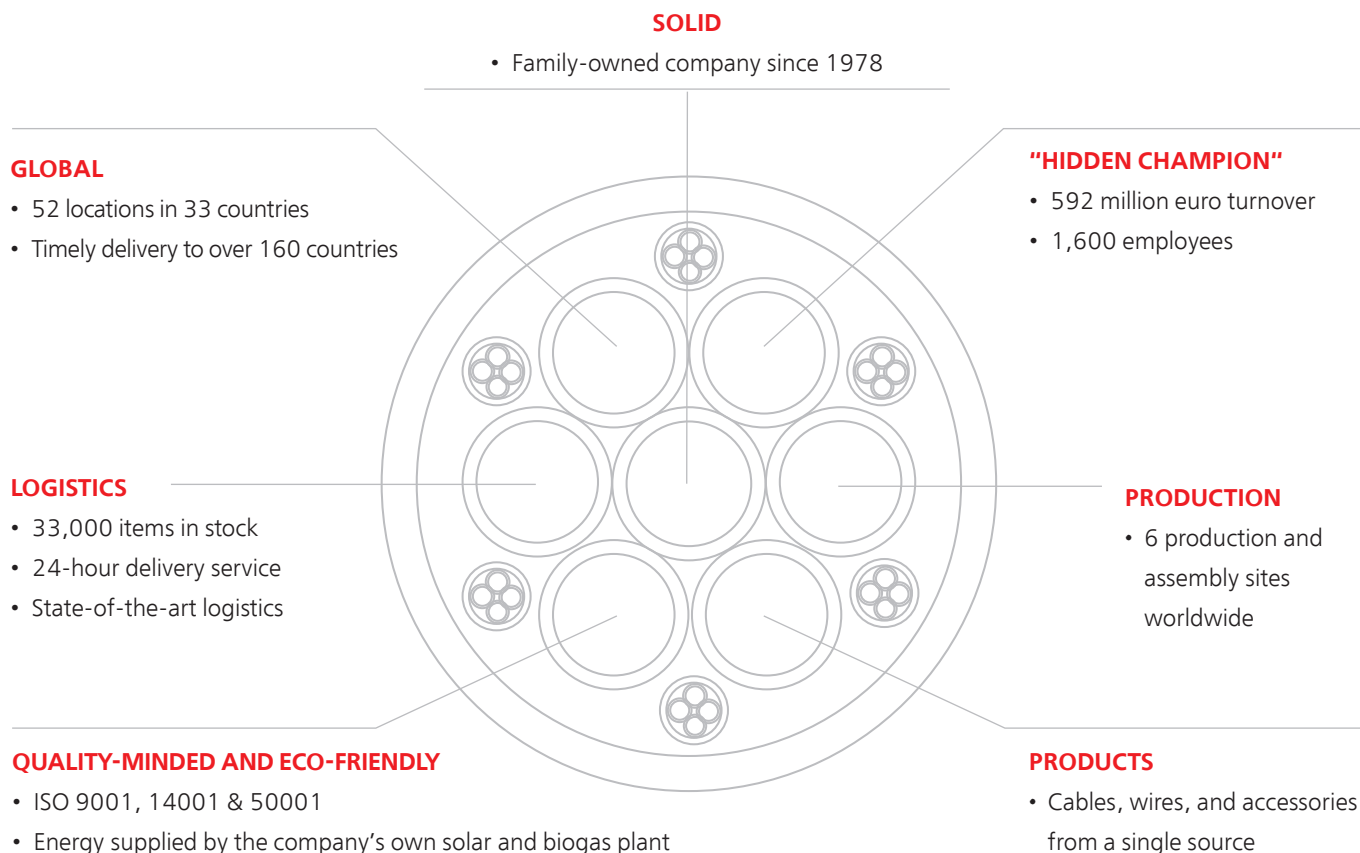
Item no:	Size mm ²	Colour	Colour code	L mm	I mm	PU
91882	2.5 / mid-length	grey	TM	19	12	500
91883	2.5 / mid-length	blue	DIN	19	12	500
91884	2.5 / long	grey	TM	25	18	500
91885	2.5 / long	blue	DIN	25	18	500
91355	4.0 / normal	orange	TM	16.5	10	500
91388	4.0 / normal	grey	DIN	16.5	10	500
91886	4.0 / mid-length	orange	TM	19.5	12	500
91887	4.0 / mid-length	grey	DIN	19.5	12	500
91888	4.0 / long	orange	TM	25.5	18	500
91889	4.0 / long	grey	DIN	25.5	18	500
91356	6.0 / normal	green	TM	20	12	100
91389	6.0 / normal	black	Z+F	20	12	100
93031	6.0 / normal	yellow	DIN	20	12	100
91890	6.0 / long	green	TM	26	18	100
91891	6.0 / long	black	Z+F	26	18	100
91892	6.0 / long	yellow	DIN	26	18	100
91357	10.0 / normal	brown	TM	21.5	12	100
91390	10.0 / normal	ivory	Z+F	21.5	12	100
93032	10.0 / normal	red	DIN	21.5	12	100
91893	10.0 / long	brown	TM	27.5	18	100
91894	10.0 / long	ivory	Z+F	27.5	18	100
94024	10.0 / long	red	DIN	27.5	18	100
91895	16.0 / normal	ivory	TM	22.2	12	100
91896	16.0 / normal	green	Z+F	22.2	12	100
91897	16.0 / normal	blue	DIN	22.2	12	100
91898	16.0 / long	ivory	TM	28.2	18	100
91899	16.0 / long	green	Z+F	28.2	18	100
91900	16.0 / long	blue	DIN	28.2	18	100
91359	25.0 / normal	black	TM	29	16	50
91392	25.0 / normal	brown	Z+F	29	16	50
93034	25.0 / normal	yellow	DIN	29	16	50
91901	25.0 / long	black	TM	35	22	50
91902	25.0 / long	brown	Z+F	35	22	50
91903	25.0 / long	yellow	DIN	35	22	50
91393	35.0 / normal	red	DIN	30	16	50
91394	35.0 / normal	beige	Z+F	30	16	50
91904	35.0 / long	red	DIN	39	25	50
91905	35.0 / long	beige	Z+F	39	25	50
91395	50.0 / normal	blue	DIN	36.4	20	50
91396	50.0 / normal	olive	Z+F	36.4	20	50
91906	50.0 / long	blue	DIN	41	25	50
91907	50.0 / long	olive	Z+F	41	25	50

TM= Telemecanique

*Price per 100 units in euros



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