



PART 3 · EARTHING AND LIGHTNING PROTECTION

Cable Lugs and Connectors

Copper and tinned copper, bimetal Cu-Al and aluminium lugs, connectors, terminals and ferrules, 0.5 to 1000 mm².

- | | |
|---|--|
| ■ Copper tubular lugs, plain and tinned | ■ DIN 46235 and two-hole lugs |
| ■ Butt connectors and bare ring terminals | ■ Insulated ring, fork, pin and faston terminals |
| ■ Cord-end ferrules, single and twin | ■ Bimetal Cu-Al lugs and connectors |
| ■ Aluminium lugs and connectors | ■ Correct installation |

Part numbers and materials

Every CASK cable lug part number describes the product: the base number, the cable cross-section, the stud size and, for copper, the finish. The ERP builds the same number from the size, so offers, orders and the catalogue always match.

CEL-15001	-	95	-	M12	-	SN
Product base number		Cable section mm ²		Stud / bolt hole metric		Finish copper parts

Two-hole lugs The stud is written with the number of holes: CEL-15004-120-2M12-SN.	Connectors Butt connectors have no stud: CEL-15005-95-SN. Ferrules add the pin length: CEL-15101-2.5-L8-SN.	Aluminium and bimetal No finish code is added: CEL-15201-185-M12. Al-Cu connectors show both sections: CEL-15203-95-50.
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CODE	MATERIAL	DESCRIPTION
-CU	 Bright copper	Cu-ETP copper tube to EN 13600, min. 99.9% Cu, conductivity ≥ 57 MS/m. Cleaned and passivated.
-SN	 Electro-tinned copper	Same copper body, tin plated to EN ISO 2093, min. 5 µm. For damp, coastal and aggressive sites, tinned busbars and long storage.
—	 Bimetal Cu-Al	Aluminium barrel friction welded to a copper palm. Aluminium cable onto copper busbars and terminals.
—	 Aluminium	Aluminium EN AW-1050A (min. 99.5% Al), pre-filled with oxide-inhibiting contact grease, barrel sealed.

Copper cable Copper conductor onto copper, brass or tinned terminals and busbars. Copper lug -CU or -SN	Aluminium cable onto copper Aluminium conductor onto copper busbars, breakers and transformer terminals. Bimetal Cu-Al lug	Aluminium cable onto aluminium Aluminium conductor onto aluminium busbars and overhead line fittings. Aluminium lug
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DIN 46235	Copper compression cable lugs	DIN 48083	Hexagonal crimp dies (die code)
DIN 46234	Copper ring terminals	IEC 61238-1	Compression connectors, tested class A
DIN 46267-1 / -2	Copper and aluminium butt connectors	EN 13600	Copper tube for electrical purposes
DIN 46329	Aluminium compression cable lugs	EN ISO 2093	Electroplated tin coatings
DIN 46228 / 46237	Ferrules and insulated terminals	IEC 60228	Conductors: class 1, 2 and 5 (flexible)

Copper tubular cable lugs

Made from seamless electrolytic copper tube, electro-tinned as standard. For class 2 stranded and class 5 flexible copper conductors.

Tubular cable lug, standard type 6 to 300 mm² · 48 sizes

CEL-15001



- Seamless Cu-ETP tube, min. 99.9% Cu (EN 13600)
- Electro-tinned -SN as standard; bright copper -CU on order
- Bell-mouthed barrel entry for easy insertion
- Section stamped on the palm
- Crimp with hexagonal dies, tested to IEC 61238-1

Example part number

CEL-15001-95-M12-SN

Stud / bolt hole · ● = part number made											
mm ²	d1	d4	b	L	M4	M5	M6	M8	M10	M12	M16
6	4	5.5	9 – 13.5	19 – 24.5	●	●	●	●			
10	4.5	6	9 – 15	21 – 25		●	●	●	●		
16	5.5	7.5	11.5 – 15	24 – 25			●	●	●		
25	7	9.5	14 – 18	27.5 – 32			●	●	●	●	
35	8.5	11	16 – 18	32 – 34			●	●	●	●	
50	10	13	19	37.5			●	●	●	●	
70	11.5	14.5	21 – 23	40 – 45			●	●	●	●	●
95	13.5	16.5	24 – 26	45 – 47.5				●	●	●	●
120	14.5	18	26.5	49				●	●	●	●
150	16.5	21	30.5	55				●	●	●	●
185	18.5	23	33.5	61					●	●	●
240	21	26	38	68					●	●	●
300	23.5	28.5	42	75						●	●

d1 = barrel bore · d4 = barrel outer diameter · b = palm width · L = overall length. Where the palm grows with the stud, the range is shown. Larger sections to 1000 mm²: DIN 46235 lugs CEL-15003. Dimensions in mm.

Tubular cable lug, short type 16 to 240 mm² · 26 sizes

CEL-15002



- Short palm for compact switchgear and tight terminal spaces
- Same copper tube and tin plating as the standard type
- Electro-tinned -SN as standard; bright copper -CU on order

Example part number

CEL-15002-70-M10-SN

Stud / bolt hole · ● = part number made									
mm ²	d1	d4	b	L	M5	M6	M8	M10	M12
16	5.5	7	10.5	24	●	●			
25	7	9	14	27.5	●	●	●		
35	8.5	10.5	15.5	32		●	●		
50	10	12	18	37.5		●	●	●	
70	11.5	14	21	40		●	●	●	
95	13.5	16	24	45			●	●	●
120	15.5	18	27	49			●	●	●
150	16.5	20	29	51.5			●	●	●
185	18.5	22	32	58.5				●	●
240	21.5	25.5	37.5	66				●	●

Dimensions in mm, nominal.

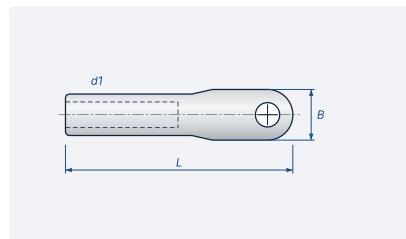
Copper compression lugs, DIN 46235

Heavy-wall tube lugs for power cables up to 1000 mm², class 2 stranded and class 5 flexible copper. Bright copper -CU or electro-tinned -SN.

Copper compression cable lug, DIN 46235

Closed barrel · 10 to 1000 mm² · 56 sizes per finish

CEL-15003



- Seamless Cu-ETP tube to EN 13600, min. 99.9% Cu
- Closed barrel end keeps moisture out of the conductor
- Section, stud and die code stamped on the lug
- Crimp with DIN 48083 hexagonal dies, tested to IEC 61238-1 class A

Example part number

CEL-15003-240-M16-SN

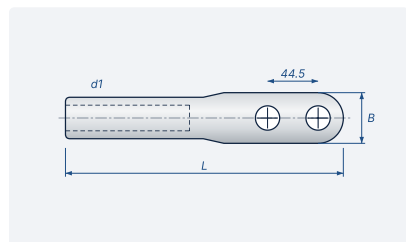
Stud / bolt hole · ● = part number made												
mm ²	d1	B	L	Die	M5	M6	M8	M10	M12	M16	M20	M24
10	4.5	10	32	6	●	●	●	●				
16	5.5	12	35	8	●	●	●	●	●			
25	7	15	40	10		●	●	●	●			
35	8.2	18	45	12		●	●	●	●	●		
50	10	22	51	14			●	●	●	●		
70	11.5	25	56	16			●	●	●	●	●	
95	13.5	28	63	18				●	●	●	●	
120	15.5	32	69	20				●	●	●	●	
150	17	34	75	22				●	●	●	●	
185	19	37	82	25				●	●	●	●	
240	21.5	45	91	28					●	●	●	
300	24	48	100	32						●	●	
400	27.5	55	115	38						●	●	
500	31	60	125	42							●	
630	35	70	140	50							●	
800	39.5	80	160	—							●	●
1000	44	90	180	—							●	●

d1 = barrel bore · B = palm width · L = overall length · Die = DIN 48083 die code. 800 and 1000 mm²: crimp die to the tool maker's table. Dimensions in mm, nominal.

Copper two-hole cable lug

Long barrel · 35 to 1000 mm² · 26 sizes per finish

CEL-15004



- Two bolt holes at 44.5 mm centres stop the lug from turning
- Long barrel for two crimps
- For busbars, switchgear and transformer terminals

Example part number

CEL-15004-120-2M12-SN

Stud / bolt hole · ● = part number made							
mm ²	d1	B	L	M10	M12	M16	M20
35	8.2	20	95	●	●		
50	10	22	100	●	●		
70	11.5	25	106	●	●		
95	13.5	28	112	●	●		
120	15.5	32	118	●	●	●	
150	17	34	124		●	●	
185	19	37	130		●	●	
240	21.5	45	140		●	●	
300	24	48	150		●	●	
400	27.5	55	165			●	
500	31	60	175			●	
630	35	70	190			●	
800	39.5	80	205			●	●
1000	44	90	220			●	●

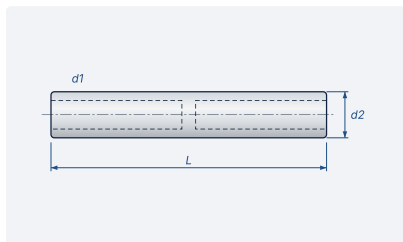
Number = CEL-15004 - section - 2 + stud - finish. Hole spacing 44.5 mm. Dimensions in mm.

Copper connectors and bare terminals

Butt connectors in bright -CU or electro-tinned -SN copper; bare ring terminals electro-tinned.

Copper butt connector, DIN 46267-1 6 to 1000 mm² · 18 sizes per finish

CEL-15005



- Seamless Cu-ETP tube with centre stop
- Non-tension joints in copper power cables
- Crimp marks for the correct die position

Example part number
CEL-15005-95-SN

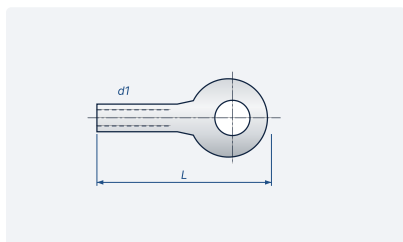
mm ²	d1	d2	L
6	3.8	6	30
10	4.5	7	30
16	5.5	8	30
25	7	10	34
35	8.2	11.5	40
50	10	13.5	46
70	11.5	15.5	50
95	13.5	18	56
120	15.5	20	60

mm ²	d1	d2	L
150	17	22	64
185	19	24.5	70
240	21.5	27.5	76
300	24	30.5	85
400	27.5	34.5	95
500	31	39	105
630	35	44	115
800	39.5	49	130
1000	44	55	145

Number = CEL-15005 - section - finish. d1 = bore · d2 = outer diameter · L = length, mm.

Copper ring terminal, non-insulated, DIN 46234 1.5 to 16 mm² · electro-tinned

CEL-15006



- Tinned copper, brazed seam barrel
- For control and small power conductors
- Fit heat shrink sleeve where insulation is needed

Example part number
CEL-15006-6-M8-SN

Stud / bolt hole · ● = part number made								
mm ²	d1	M3	M4	M5	M6	M8	M10	M12
1.5	1.8	●	●	●	●	●		
2.5	2.3	●	●	●	●	●	●	
4	2.9		●	●	●	●	●	
6	3.6		●	●	●	●	●	●
10	4.5			●	●	●	●	●
16	5.5			●	●	●	●	●

Electro-tinned only: finish code -SN.

Correct installation

1

Strip

Strip the insulation to the barrel depth plus 2 to 3 mm. Clean aluminium conductors and keep the grease in the barrel.

2

Insert

Push the conductor fully home to the closed end or centre stop. No strands outside the barrel.

3

Crimp

Use the hexagonal die with the code stamped on the lug. Crimp from the palm side towards the cable.

4

Check

Die code must be visible on every crimp. Fit heat shrink or a cover where the barrel stays exposed.

Insulated terminals

Electro-tinned copper with colour-coded PVC sleeves, 105 °C, 600 V. Colour shows the conductor size: red 0.5–1.5, blue 1.5–2.5, yellow 4–6 mm².

Insulated ring terminal 0.5 to 10 mm² · 25 sizes

CEL-15103



- Tinned copper ring, brazed seam barrel
- Funnel entry, PVC sleeve, 105 °C, 600 V
- Stud M3 to M12

Example part number

CEL-15103-2.5-M6-SN

Stud · cell = overall length L (mm)										
Colour		mm²	M3	M3.5	M4	M5	M6	M8	M10	M12
Red		0.5 – 1.5	16.7	19.6	19.6	21	26.8	26.8	30.7	35.6
Blue		1.5 – 2.5	17.5	19.5	19.6	22	27	27	30.7	35.6
Yellow		4 – 6			22	25.5	29	33.7	33.7	38.1
Red		8 – 10			32.5	32.5	32.5			

Number = CEL-15103 - upper value of the colour range (1.5 / 2.5 / 6 / 10) - stud - SN.

Insulated fork terminal, DIN 46237 0.5 to 10 mm² · 20 sizes

CEL-15104



- Open fork: fit without removing the terminal screw
- Tinned copper, PVC sleeve, 105 °C, 600 V

Example part number

CEL-15104-6-M5-SN

Stud · cell = overall length L (mm)								
Colour		mm²	M3	M3.5	M4	M5	M6	M8
Red		0.5 – 1.5	21	20.6	20.6	21	27.2	27.2
Blue		1.5 – 2.5	21	21	21	22	27.2	27.2
Yellow		4 – 6		25.2	25.2	25.2	25.2	30
Red		8 – 10			29	29	30.5	

Number = CEL-15104 - section - stud - SN.

Insulated pin terminal 0.5 to 6 mm² · 5 sizes

CEL-15105



- Solid tinned pin for spring and screw terminal blocks
- PVC sleeve, 75 °C, 600 V

Example part number

CEL-15105-2.5-F12.5-SN

mm ²	Colour	Pin Ø	Pin length F	Overall L	Part number
1.5	Red	1.9	10.5	20.5	CEL-15105-1.5-F10.5-SN
2.5	Blue	1.9	10.5	20.5	CEL-15105-2.5-F10.5-SN
2.5	Blue	1.9	12.5	22.5	CEL-15105-2.5-F12.5-SN
2.5	Blue	1.9	18.5	28.5	CEL-15105-2.5-F18.5-SN
6	Yellow	2.8	13.7	26.2	CEL-15105-6-F13.7-SN

Dimensions in mm.

Ferrules and disconnects

For flexible conductors in terminal blocks, breakers and control panels. Colour coded by conductor size.

Insulated cord-end ferrule, DIN 46228-4 0.5 to 150 mm² · 32 sizes

CEL-15101



- Electro-tinned copper tube, seamless
- Polypropylene collar, colour coded (French code)
- Two pin lengths per size

Example part number

CEL-15101-2.5-L8-SN

mm ²	Colour	Pin	Overall L
0.5	White	8 / 10	14 / 16
0.75	Blue	8 / 10	14 / 16
1	Red	8 / 10	14 / 16
1.5	Black	8 / 10	14 / 16
2.5	Grey	8 / 10	15 / 17
4	Orange	10 / 12	17 / 19
6	Green	12 / 18	20 / 26
10	Brown	12 / 18	22 / 28

mm ²	Colour	Pin	Overall L
16	Ivory	12 / 18	22 / 28
25	Black	16 / 22	28 / 34
35	Red	16 / 25	30 / 39
50	Blue	20 / 25	36 / 41
70	Yellow	20 / 25	39 / 44
95	Red	25 / 30	46 / 51
120	Blue	25 / 30	48 / 53
150	Yellow	32 / 35	57 / 60

Number = CEL-15101 - section - L + pin length - SN. Overall L for the short / long pin. Dimensions in mm.

Insulated twin cord-end ferrule 2 × 0.5 to 2 × 16 mm² · 14 sizes

CEL-15102



- Two conductors in one terminal
- Oval collar keeps both wires aligned

Example part number

CEL-15102-2x1.5-L8-SN

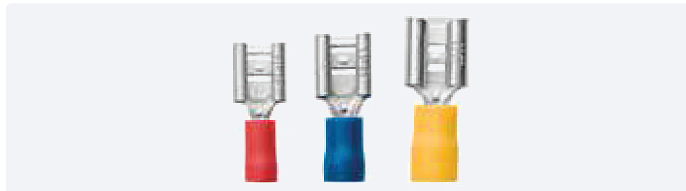
mm ²	Colour	Pin	Overall L
2 × 0.5	White	8	15
2 × 0.75	Blue	8 / 10	15 / 17
2 × 1	Red	8 / 10	15 / 17
2 × 1.5	Black	8 / 10 / 12	16 / 18 / 20
2 × 2.5	Grey	10 / 13	18.5 / 21.5

mm ²	Colour	Pin	Overall L
2 × 4	Orange	12	23
2 × 6	Green	14	26
2 × 10	Brown	14	26.5
2 × 16	Ivory	14	31.5

Number = CEL-15102 - 2x section - L + pin length - SN.

Female disconnect, insulated

CEL-15106



mm ²	Colour	Tab	L	Part number
0.5 - 1.5	Red	2.8 × 0.5	17	CEL-15106-1.5-2.8-SN
0.5 - 1.5	Red	4.8 × 0.5	18.5	CEL-15106-1.5-4.8-SN
0.5 - 1.5	Red	6.3 × 0.8	20.5	CEL-15106-1.5-6.3-SN
1.5 - 2.5	Blue	4.8 × 0.5	18.5	CEL-15106-2.5-4.8-SN
1.5 - 2.5	Blue	6.3 × 0.8	21	CEL-15106-2.5-6.3-SN
4 - 6	Yellow	6.3 × 0.8	24	CEL-15106-6-6.3-SN

Female disconnect, fully insulated

CEL-15107



mm ²	Colour	Tab	L	Part number
0.5 - 1.5	Red	6.3 × 0.8	22	CEL-15107-1.5-6.3-SN
1.5 - 2.5	Blue	6.3 × 0.8	22	CEL-15107-2.5-6.3-SN
4 - 6	Yellow	6.3 × 0.8	25	CEL-15107-6-6.3-SN

Bimetal Cu-Al lugs and connectors

Aluminium barrel friction welded to copper: aluminium cable onto copper, without galvanic corrosion.

Bimetal Cu-Al cable lug, angled palm 16 to 400 mm² · 12 sizes

CEL-15201



- Al EN AW-1050A barrel, Cu-ETP palm, friction welded
- Pre-filled with contact grease; angled palm for transformer terminals

Example part number

CEL-15201-185-M12

mm ²	Barrel Ø	Bore	L	Stud
16	16	5.5	82	M8
25	16	6.5	82	M8
35	16	8.2	82	M8
50	20	9.7	88	M10
70	20	11	88	M10
95	20	12.5	88	M10

Number = CEL-15201 - section - stud. Dimensions in mm.

mm ²	Barrel Ø	Bore	L	Stud
120	25	13.7	110	M10
150	25	15.5	110	M10
185	32	17.5	120	M12
240	32	19.5	120	M12
300	40	23	160	M12
400	40	26.2	160	M12

Bimetal Cu-Al cable lug, straight long type 16 to 500 mm² · 13 sizes

CEL-15202



- Long aluminium barrel for two or more crimps
- Narrow copper palm for breakers and meter terminals

Example part number

CEL-15202-240-M12

mm ²	Barrel Ø	Bore	L	Palm W	Stud
16	16	5.5	82	14	M8
25	16	6.5	82	14	M8
35	16	8.2	82	14	M8
50	20	9.7	94	16	M8
70	20	11	94	16	M8
95	20	12.5	94	16	M8
120	25	14.5	120	23	M10

Number = CEL-15202 - section - stud. Dimensions in mm.

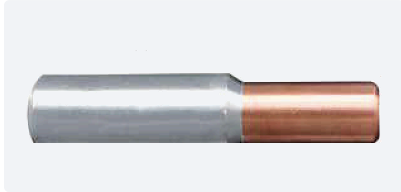
mm ²	Barrel Ø	Bore	L	Palm W	Stud
150	25	16.5	120	23	M10
185	32	17.5	133	23	M12
240	32	19.5	133	29	M12
300	34	23	133	29	M12
400	40	26.2	163	29	M12
500	40	29	163	29	M12

Aluminium-copper connectors

Friction welded Al-Cu joints for mixed networks: aluminium cable onto copper cable, terminal blocks and busbars.

Aluminium-copper butt connector

Al 35 to 240 mm² to Cu 16 to 150 mm² · 8 sizes

CEL-15203


- Joins aluminium cable to copper cable of equal current rating
- Aluminium half pre-filled with contact grease

Example part number
CEL-15203-95-50

Al mm ²	Cu mm ²	Al bore	Cu bore	L
35	16	8.5	7	85
50	25	9.8	8.5	90
70	35	11.5	9.8	100
95	50	13.5	11.5	110

Al mm ²	Cu mm ²	Al bore	Cu bore	L
120	70	15	13.5	110
150	95	16.5	15	115
185	120	18.5	16.5	125
240	150	21	18.5	130

Number = CEL-15203 - Al section - Cu section. Dimensions in mm.

Aluminium-copper pin connector

Al 10 to 300 mm² · 12 sizes

CEL-15204


- Copper pin for screw terminals of breakers and meters
- Aluminium barrel pre-filled with contact grease

Example part number
CEL-15204-95-120

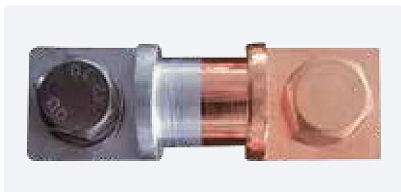
Al mm ²	Term. mm ²	Al bore	Pin Ø	L	Pin
10	16	4.5	5	58	15
16	25	5.5	6	58	15
25	35	6.8	6	58	20
35	50	8	7	71	22
50	70	9.8	8	74	25
70	95	11.2	10	87	30

Al mm ²	Term. mm ²	Al bore	Pin Ø	L	Pin
95	120	13.2	12	91	33
120	150	14.7	12	97	38
150	185	16.3	12	108	38
185	240	18.3	14	116	44
240	300	21	16	128	44
300	—	23.3	18	131	46

Number = CEL-15204 - Al section - terminal section. Dimensions in mm.

Bimetal Cu-Al transition plate

For aluminium busbars onto copper terminals

CEL-15205


- Copper and aluminium layers, friction welded
- Placed between Al busbar and Cu terminal

Example part number
CEL-15205-26-M10

Width B	L	L1	Bolt	Part number
26	80	26	M10	CEL-15205-26-M10
29	80	26	M10	CEL-15205-29-M10

Dimensions in mm.

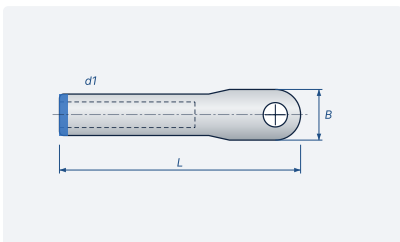
Aluminium lugs and connectors

For aluminium conductors, class 1 and 2, round and sector shaped. Barrels pre-filled with contact grease and sealed.

Aluminium compression cable lug, DIN 46329

16 to 1000 mm² · 37 sizes

CEL-15211



- Aluminium EN AW-1050A, min. 99.5% Al
- For aluminium cable onto aluminium busbars and terminals
- Barrel pre-filled with oxide-inhibiting grease, sealed with a cap
- Crimp with DIN 48083 dies for aluminium

Example part number

CEL-15211-240-M16

Stud / bolt hole · ● = part number made

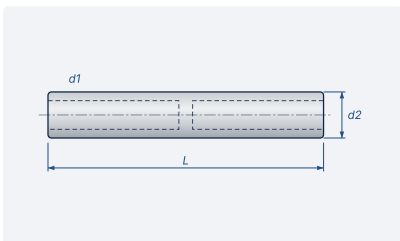
mm ²	d1	B	L	M6	M8	M10	M12	M16	M20	M24
16	5.8	16	60	●	●	●	●			
25	7	18	70		●	●	●			
35	8	20	75		●	●	●			
50	9.6	22	80			●	●			
70	11.6	25	90			●	●	●		
95	13.4	28	95			●	●	●		
120	15	30	100				●	●		
150	16.6	32	106				●	●		
185	18.6	34	115				●	●	●	
240	21	38	125					●	●	
300	23.5	42	135					●	●	
400	26.6	48	150					●	●	
500	30	54	165						●	
630	33	60	180						●	
800	37	70	200						●	●
1000	41.5	80	220						●	●

Number = CEL-15211 - section - stud. For aluminium cable onto copper use the bimetal lugs CEL-15201 / 15202. Dimensions in mm.

Aluminium butt connector, DIN 46267-2

16 to 1000 mm² · 16 sizes

CEL-15212



- Aluminium EN AW-1050A tube with centre stop
- Pre-filled with contact grease, both ends sealed

Example part number

CEL-15212-150

mm ²	d1	L
16	5.8	80
25	7	90
35	8	95
50	9.6	100
70	11.6	110
95	13.4	120
120	15	125
150	16.6	130

Number = CEL-15212 - section. d1 = bore · L = length, mm.

mm ²	d1	L
185	18.6	140
240	21	150
300	23.5	160
400	26.6	175
500	30	190
630	33	205
800	37	225
1000	41.5	245



PRODUCT CATALOGUE 2026

Cable Lugs and Connectors

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