



Cembre



Certified Quality Management System



Certified Environmental Management System



Certified Occupational Health & Safety Management System

GENERAL CATALOGUE



VP RP BP GP

HALOGEN FREE INSULATED TERMINALS

P range funnel entry - for Copper conductors



The "P" range of terminals has been designed, to meet the increasing demands for improved safety and reliability of electrical connectors.

The Polycarbonate insulation, is a Halogen free, self extinguishing thermoplastic material class V0 (UL 94). The unique funnel shaped entry of the insulation sleeve, guarantees to-

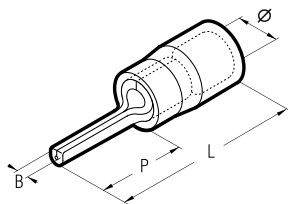
tal insertion of the conductor strands into the terminal barrel, creating a secure and reliable, electrical and mechanical connection.

The operating temperature range is -20 to +115°C (Surge +130°C). Recommended crimping tools are shown on pages 108 to 129, 168.



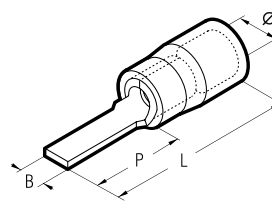
Certified according to
EN 45545-2:2013

pin terminals



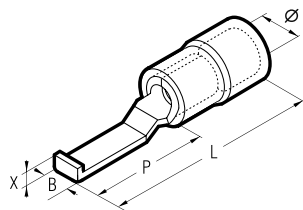
Conductor Size sqmm (AWG)	Type	Dimensions mm				Quantity Box/Bag
		Ø	B	P	L	
0,2÷0,5 (24÷20)	VP-P10	3,0	1,0	9,8	20,2	4.000/100
	RP-P8	4,0	1,6	7,8	17,9	3.000/100
0,25÷1,5 (22÷16)	RP-P10	4,0	1,6	9,8	19,9	3.000/100
	RP-P12	4,0	1,6	12,0	22,1	3.000/100
1,5÷2,5 (16÷14)	BP-P8	4,9	1,7	7,8	17,9	3.000/100
	BP-P10	4,9	1,8	9,8	19,9	3.000/100
	BP-P12	4,9	1,8	11,8	21,9	2.500/100
4÷6 (12÷10)	GP-P10	6,6	2,2	10,4	24,5	1.000/100
	GP-P12	6,6	2,2	12,6	26,7	1.000/100
	GP-P14	6,6	2,2	14,6	28,7	1.000/100

blade terminals



Conductor Size sqmm (AWG)	Type	Dimensions mm				Quantity Box/Bag
		Ø	B	P	L	
0,2÷0,5 (24÷20)	VP-PP12/19	3,0	1,9	12,4	22,4	4.000/100
	RP-PP12	4,0	3,0	12,8	22,9	3.000/100
0,25÷1,5 (22÷16)	RP-PP12/1	4,0	3,0	11,3	21,4	3.000/100
	RP-PP12/19	4,0	1,9	13,2	23,3	3.000/100
	RP-PP12/23	4,0	2,3	13,2	23,3	2.500/100
	RP-PP14	4,0	3,0	14,8	24,9	2.500/100
	RP-PP16/23	4,0	2,3	17,2	27,3	2.500/100
1,5÷2,5 (16÷14)	BP-PP12	4,9	3,5	12,8	22,9	2.500/100
	BP-PP12/25	4,9	2,5	13,3	23,4	2.000/100
	BP-PP12/29	4,9	2,9	13,3	23,4	2.500/100
	BP-PP16/25	4,9	2,5	17,2	27,3	2.500/100
4÷6 (12÷10)	GP-PP12	6,6	4,0	13,3	27,4	1.000/100
	GP-PP17	6,6	2,9	19,1	33,2	1.000/100

hooked blade terminals



Conductor Size sqmm (AWG)	Type	Dimensions mm					Quantity Box/Bag
		Ø	B	P	L	X	
0,25÷1,5 (22÷16)	RP-PPL30*	4,0	3,0	17,5	28,3	1,7	3.000/100
	RP-PPL46*	4,0	4,6	17,5	28,3	1,7	3.000/100
1,5÷2,5 (16÷14)	BP-PPL30*	4,9	3,0	17,5	28,3	1,7	2.500/100
	BP-PPL46*	4,9	4,6	17,5	28,8	1,7	2.500/100
4÷6 (12÷10)	GP-PPL46*	6,6	4,6	17,5	32,6	1,9	1.000/100

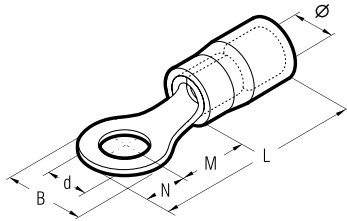
*Not UL approved

HALOGEN FREE INSULATED TERMINALS

P range funnel entry - for Copper conductors

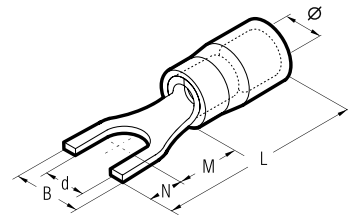
VP RP
BP GP

ring terminals



Cond. Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag
			Ø	B	M	N	L	d	
0,25÷0,5 (24÷20)	3,0	2 VP-M2*	3,0	5,6	4,5	2,8	17,5	2,2	4.000/100
		3 VP-M3	3,0	5,6	4,5	2,8	17,5	3,2	4.000/100
		3,5 VP-M3.5	3,0	5,6	4,5	2,8	17,5	3,7	4.000/100
		4 VP-M4	3,0	7,0	6,5	3,5	20,2	4,3	4.000/100
		5 VP-M5	3,0	7,8	7,1	3,9	21,2	5,3	4.000/100
		6 VP-M6*	3,0	9,4	8,1	4,7	23,0	6,4	4.000/100
0,25÷1,5 (22÷16)	4,0	2 RP-M2*	4,0	5,6	4,5	2,8	17,4	2,2	3.000/100
		3 RP-M3	4,0	5,6	4,5	2,8	17,4	3,2	3.000/100
		3,5 RP-M3.5	4,0	5,6	4,5	2,8	17,4	3,7	3.000/100
		3,5 RP-M3.5/1	4,0	6,2	7,1	3,1	20,2	3,7	3.000/100
		4 RP-M4	4,0	7,0	6,5	3,5	20,1	4,3	3.000/100
		4 RP-M4/3	4,0	7,8	7,1	3,9	21,1	4,3	3.000/100
		5 RP-M5	4,0	7,8	7,1	3,9	21,1	5,3	3.000/100
		6 RP-M6	4,0	9,4	8,1	4,7	22,9	6,4	2.500/100
		6 RP-M6/1	4,0	12,0	10,3	6,0	26,4	6,4	2.000/100
		7 RP-M7	4,0	9,4	8,1	4,7	22,9	7,2	2.500/100
		8 RP-M8	4,0	12,0	10,3	6,0	26,4	8,4	2.500/100
		10 RP-M10	4,0	15,5	13,0	7,7	30,9	10,5	2.000/100
12 RP-M12	4,0	18,0	15,5	9,0	34,6	13,0	2.000/100		
1,5÷2,5 (16÷14)	4,9	2 BP-M2*	4,9	5,6	5,0	2,8	17,9	2,2	2.500/100
		3 BP-M3	4,9	5,6	5,0	2,8	17,9	3,2	2.500/100
		3,5 BP-M3.5	4,9	5,6	5,0	2,8	17,9	3,7	2.500/100
		3,5 BP-M3.5/1	4,9	6,2	6,5	3,1	19,7	3,7	2.500/100
		4 BP-M4	4,9	8,0	6,5	4,0	20,6	4,3	2.500/100
		5 BP-M5	4,9	8,0	7,5	4,0	21,6	5,3	2.500/100
		6 BP-M6	4,9	9,4	8,6	4,7	23,4	6,4	2.000/100
		6 BP-M6/1	4,9	12,0	10,3	6,0	26,4	6,4	2.500/100
		6 BP-M6/2*	4,9	8,4	5,4	4,2	19,7	6,4	2.500/100
		7 BP-M7	4,9	10,0	7,8	5,0	22,9	7,2	2.500/100
		8 BP-M8	4,9	12,0	10,3	6,0	26,4	8,4	1.500/100
		10 BP-M10	4,9	15,5	13,0	7,7	30,9	10,5	1.500/100
12 BP-M12	4,9	18,0	15,5	9,0	34,6	13,0	1.500/100		
4÷6 (12÷10)	6,6	3 GP-M3	6,6	8,0	8,1	4,0	26,2	3,2	1.000/100
		3,5 GP-M3.5	6,6	8,0	8,1	4,0	26,2	3,7	1.500/100
		4 GP-M4	6,6	9,0	8,1	4,5	26,7	4,3	1.000/100
		5 GP-M5	6,6	9,0	8,1	4,5	26,7	5,3	1.000/100
		6 GP-M6	6,6	11,0	11,1	5,5	30,7	6,4	1.000/100
		6 GP-M6/1	6,6	11,0	8,1	5,5	27,7	6,4	1.000/100
		7 GP-M7	6,6	11,0	11,1	5,5	30,7	7,2	1.000/100
		8 GP-M8	6,6	13,6	12,1	6,8	33,0	8,4	1.000/100
		8 GP-M8/1*	6,6	11,0	8,1	5,5	27,7	8,4	1.000/100
		10 GP-M10	6,6	13,6	12,1	6,8	33,0	10,5	1.000/100
		10 GP-M10/1	6,6	15,5	13,8	7,7	35,7	10,5	1.000/100
		12 GP-M12	6,6	19,0	15,1	9,5	38,7	13,0	500/100
		14 GP-M14	6,6	21,0	16,1	10,5	40,7	15,0	500/100
		16 GP-M16	6,6	24,0	17,1	12,0	43,2	17,0	500/100

fork/spade terminals



Cond. Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag		
			Ø	B	M	N	L	d			
0,25÷0,5 (24÷20)	3,0	3 VP-U3	3,0	5,5	5,5	4,0	18,7	3,2	4.000/100		
		3,5 VP-U3.5	3,0	6,0	6,5	3,8	19,5	3,7	4.000/100		
		4 VP-U4	3,0	6,5	7,5	3,7	20,4	4,3	4.000/100		
		3 RP-U3	4,0	5,5	5,5	4,0	19,6	3,2	3.000/100		
		3,5 RP-U3.5	4,0	6,0	6,5	3,8	20,4	3,7	3.000/100		
		3,5 RP-U3.5/2	4,0	6,4	6,5	3,8	20,4	3,7	3.000/100		
0,25÷1,5 (22÷16)	4,0	4 RP-U4	4,0	6,5	7,5	3,7	21,3	4,3	3.000/100		
		4 RP-U4/1	4,0	8,5	7,5	3,7	21,3	4,3	3.000/100		
		4 RP-U4/2	4,0	7,5	7,5	3,7	21,3	4,3	3.500/100		
		5 RP-U5	4,0	8,5	7,5	3,7	21,3	5,3	3.000/100		
		5 RP-U5/1*	4,0	9,4	7,5	3,7	21,3	5,3	3.000/100		
		6 RP-U6	4,0	9,4	8,1	4,7	22,9	6,4	2.000/100		
		6 RP-U6/1	4,0	12,0	9,2	7,1	26,4	6,4	2.000/100		
		8 RP-U8	4,0	14,0	10,0	6,3	26,4	8,4	2.000/100		
		10 RP-U10	4,0	17,5	13,0	7,7	30,9	10,5	1.500/100		
		12 RP-U12	4,0	20,0	15,5	9,0	34,6	13,0	1.500/100		
		1,5÷2,5 (16÷14)	4,9	3 BP-U3	4,9	5,5	5,5	4,0	19,6	3,2	2.500/100
				3,5 BP-U3.5	4,9	6,4	6,5	3,8	20,4	3,7	2.500/100
3,5 BP-U3.5/1*	4,9			7,2	6,5	3,8	20,4	3,7	2.500/100		
4 BP-U4	4,9			6,5	7,5	3,7	21,3	4,3	2.500/100		
4 BP-U4/1	4,9			8,5	7,5	3,7	21,3	4,3	3.000/100		
4 BP-U4/2	4,9			7,5	7,5	3,7	21,3	4,3	2.000/100		
5 BP-U5	4,9			8,5	7,5	3,7	21,3	5,3	2.000/100		
6 BP-U6	4,9			9,4	8,1	4,7	22,9	6,4	2.000/100		
6 BP-U6/1	4,9			12,0	9,2	7,1	26,4	6,4	2.000/100		
8 BP-U8	4,9			14,0	10,0	6,3	26,4	8,4	1.500/100		
10 BP-U10	4,9			17,5	13,0	7,7	30,9	10,5	2.000/100		
12 BP-U12	4,9			20	15,5	9,0	34,6	13,0	1.500/100		
4÷6 (12÷10)	6,6	3,5 GP-U3.5	6,6	7,5	8,5	3,9	26,5	3,7	1.000/100		
		4 GP-U4	6,6	7,5	8,0	4,4	26,5	4,3	1.000/100		
		5 GP-U5	6,6	9,5	8,0	4,4	26,5	5,3	1.000/100		
		6 GP-U6	6,6	10,0	11,0	5,5	30,6	6,4	1.000/100		
		8 GP-U8	6,6	13,5	12,0	8,0	34,1	8,4	1.000/100		
		10 GP-U10	6,6	15,5	13,0	8,0	35,1	10,5	1.000/100		
		10 GP-U10/1	6,6	17,5	13,8	7,7	35,7	10,5	1.000/100		
		12 GP-U12	6,6	21,0	15,1	9,5	38,7	13,0	500/100		
		14 GP-U14	6,6	23,0	16,1	10,5	40,7	15,0	500/100		
		16 GP-U16	6,6	26,0	17,1	11,5	42,7	17,0	500/100		

*Made to order

CRP CBP CGP

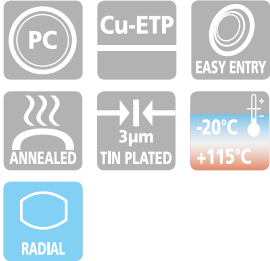
INSULATED CHAIN TERMINALS

CP range with easy entry - for Copper conductors

The "CP" range of terminals has been designed to meet the increasing demands for improved safety and reliability of electrical connectors. Developed for use with production equipment, to give a quick and reliable

crimped joint, the Polycarbonate insulation is a Halogen free, self-extinguishing thermoplastic material class V0 (UL 94). The unique funnel shaped entry of the insulation sleeve guarantees to-

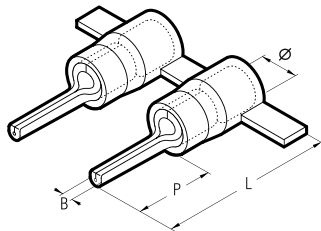
tal insertion of the conductor strands into the terminal barrel, creating a secure and reliable, electrical and mechanical connection. The operating temperature range is -20 to +115°C (Surge +130°C).



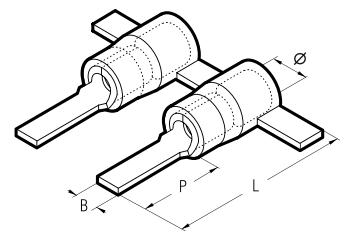
Certified according to EN 45545-2:2013



pin terminals



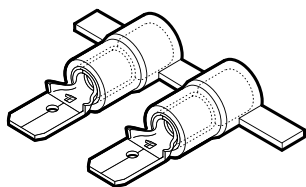
blade terminals



Conductor Size sqmm (AWG)	Type	Dimensions mm				Quantity
		Ø	B	P	L	
0,25÷1,5 (22÷16)	CRP-P8	4,0	1,6	8,0	17,9	2.000
	CRP-P10	4,0	1,6	10,0	19,9	2.000
	CRP-P12	4,0	1,6	12,0	22,1	2.000
1,5÷2,5 (16÷14)	CBP-P8	4,9	1,8	8,0	17,9	1.750
	CBP-P10	4,9	1,8	10,0	19,9	1.750
	CBP-P12	4,9	1,8	12,0	21,9	1.750
4÷6 (12÷10)	CGP-P10	6,6	2,2	10,0	24,5	1.250
	CGP-P12	6,6	2,2	12,0	26,7	1.250
	CGP-P14	6,6	2,2	14,0	28,7	1.250

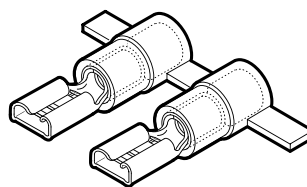
Conductor Size sqmm (AWG)	Type	Dimensions mm				Quantity
		Ø	B	P	L	
0,25÷1,5 (22÷16)	CRP-PP12	4,0	3,0	12,8	22,9	2.000
	CRP-PP12/1*	4,0	3,0	11,3	21,4	2.000
	CRP-PP12/23*	4,0	2,3	13,2	23,3	2.000
	CRP-PP14	4,0	3,0	14,8	24,9	2.000
1,5÷2,5 (16÷14)	CBP-PP12	4,9	3,5	12,8	22,9	1.750
	CBP-PP12/25*	4,9	2,5	13,3	23,4	1.750
4÷6 (12÷10)	CGP-PP12	6,6	4,0	13,3	27,4	1.250
	CGP-PP17*	6,6	2,9	19,1	33,2	1.250

male disconnect terminals



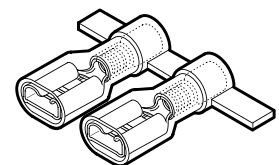
Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity
0,25÷1,5 (22÷16)	CRP-M608	6,35 x 0,8	2.000
1,5÷2,5 (16÷14)	CBP-M608	6,35 x 0,8	1.750
4÷6 (12÷10)	CGP-M608	6,35 x 0,8	1.250

female disconnect terminals



Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity
0,25÷1,5 (22÷16)	CRP-F305	2,8 x 0,5	2.000
	CRP-F308	2,8 x 0,8	2.000
	CRP-F405	4,8 x 0,5	2.000
	CRP-F408	4,8 x 0,8	2.000
	CRP-F608	6,35 x 0,8	2.000
1,5÷2,5 (16÷14)	CBP-F405	4,8 x 0,5	1.750
	CBP-F408	4,8 x 0,8	1.750
	CBP-F608	6,35 x 0,8	1.750
4÷6 (12÷10)	CGP-F608	6,35 x 0,8	1.250

female disconnect terminals fully insulated



Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity
0,25÷1,5 (22÷16)	CRP-F405P*	4,8 x 0,5	2.000
	CRP-F408P*	4,8 x 0,8	2.000
	CRP-F608P*	6,35 x 0,8	1.500
1,5÷2,5 (16÷14)	CBP-F408P*	4,8 x 0,8	1.500
	CBP-F608P*	6,35 x 0,8	1.500
4÷6 (12÷10)	CGP-F608P*	6,35 x 0,8	1.250

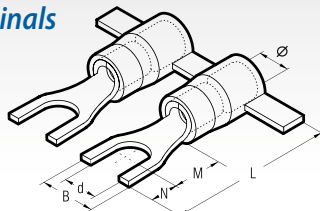
*Not UL approved *Made to order

INSULATED CHAIN TERMINALS

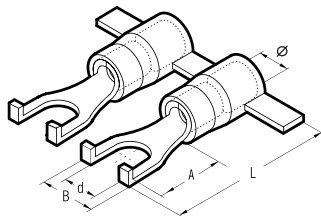
CRP CBP CGP

CP range with easy entry - for Copper conductors

fork/spade terminals

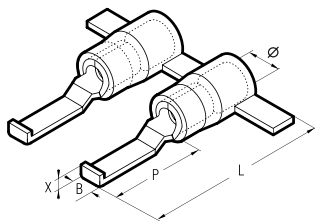


Cond. Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm					Quantity	
			Ø	B	M	N	L		d
0,25÷1,5 (22÷16)	3	CRP-U3	4,0	5,5	5,5	4,0	19,6	3,2	2.000
	3,5	CRP-U3.5	4,0	6,0	6,5	3,8	20,4	3,7	2.000
	3,5	CRP-U3.5/2*	4,0	6,4	6,5	3,8	20,4	3,7	2.000
	4	CRP-U4	4,0	6,5	7,5	3,7	21,3	4,3	2.000
	4	CRP-U4/1*	4,0	8,5	7,5	3,7	21,3	4,3	2.000
	4	CRP-U4/2*	4,0	7,5	7,5	3,7	21,3	4,3	2.000
	5	CRP-U5	4,0	8,5	7,5	3,7	21,3	5,3	2.000
	6	CRP-U6	4,0	9,4	8,1	4,7	22,9	6,4	2.000
1,5÷2,5 (16÷14)	6	CRP-U6/1*	4,0	12,0	9,2	7,1	26,4	6,4	2.000
	8	CRP-U8*	4,0	14,0	10,0	6,3	26,4	8,4	2.000
	3	CBP-U3	4,9	5,5	5,5	4,0	19,6	3,2	1.750
	3,5	CBP-U3.5	4,9	6,4	6,5	3,8	20,4	3,7	1.750
	4	CBP-U4	4,9	6,5	7,5	3,7	21,3	4,3	1.750
	4	CBP-U4/1*	4,9	8,5	7,5	3,7	21,3	4,3	1.750
4÷6 (12÷10)	4	CBP-U4/2*	4,9	7,5	7,5	3,7	21,3	4,3	1.750
	5	CBP-U5	4,9	8,5	7,5	3,7	21,3	5,3	1.750
	6	CBP-U6	4,9	9,4	8,1	4,7	22,9	6,4	1.750
	3,5	CGP-U3.5*	6,6	7,5	8,5	3,9	26,5	3,7	1.250
4	CGP-U4*	6,6	7,5	8,0	4,4	26,5	4,3	1.250	
5	CGP-U5	6,6	9,5	8,0	4,4	26,5	5,3	1.250	
6	CGP-U6	6,6	10,0	11,0	5,5	30,6	6,4	1.250	



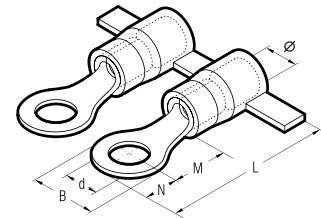
Cond. Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm					Quantity
			Ø	B	A	L	d	
1,5÷2,5 (16÷14)	4	CBP-U 4/3L*	4,9	6,5	9,5	14,5	4,3	1.750

hooked blade terminals



Cond. Size sqmm (AWG)	Type	Dimensions mm					Quantity
		Ø	B	P	L	X	
0,25÷1,5 (22÷16)	CRP-PPL30*	4,0	3,0	17,5	28,8	1,7	2.000
1,5÷2,5 (16÷14)	CBP-PPL30*	4,9	3,0	17,5	28,8	1,7	1.750

ring terminals



Cond. Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm					Quantity	
			Ø	B	M	N	L		d
0,25÷1,5 (22÷16)	3	CRP-M 3	4,0	5,6	4,5	2,8	17,4	3,2	2.000
	3,5	CRP-M 3.5*	4,0	5,6	4,5	2,8	17,4	3,7	2.000
	3,5	CRP-M 3.5/1	4,0	6,2	7,1	3,1	20,2	3,7	2.000
	4	CRP-M 4	4,0	7,0	6,5	3,5	20,1	4,3	2.000
	4	CRP-M 4/3*	4,0	7,8	7,1	3,9	21,1	4,3	2.000
	5	CRP-M 5	4,0	7,8	7,1	3,9	21,1	5,3	2.000
	6	CRP-M 6	4,0	9,4	8,1	4,7	22,9	6,4	2.000
	6	CRP-M 6/1*	4,0	12,0	10,3	6,0	26,4	6,4	2.000
1,5÷2,5 (16÷14)	7	CRP-M 7	4,0	9,4	8,1	4,7	22,9	7,2	2.000
	8	CRP-M 8	4,0	12,0	10,3	6,0	26,4	8,4	2.000
	3	CBP-M 3	4,9	5,6	5,0	2,8	17,9	3,2	1.750
	3,5	CBP-M 3.5	4,9	5,6	5,0	2,8	17,9	3,7	1.750
	3,5	CBP-M 3.5/1*	4,9	6,2	6,5	3,1	19,6	3,7	1.750
	4	CBP-M 4	4,9	8,0	6,5	4,0	20,6	4,3	1.750
	5	CBP-M 5	4,9	8,0	7,5	4,0	21,6	5,3	1.750
	6	CBP-M 6	4,9	9,4	8,6	4,7	23,4	6,4	1.750
4÷6 (12÷10)	6	CBP-M 6/1*	4,9	12,0	10,3	6,0	26,4	6,4	1.750
	7	CBP-M 7	4,9	10,0	7,8	5,0	22,9	7,2	1.750
	8	CBP-M 8	4,9	12,0	10,3	6,0	26,4	8,4	1.750
	3	CGP-M 3	6,6	8,0	8,1	4,0	26,2	3,2	1.250
	3,5	CGP-M 3.5	6,6	8,0	8,1	4,0	26,2	3,7	1.250
	4	CGP-M 4	6,6	9,0	8,1	4,5	26,7	4,3	1.250
	5	CGP-M 5	6,6	9,0	8,1	4,5	26,7	5,3	1.250
	6	CGP-M 6	6,6	11,0	11,1	5,5	30,7	6,4	1.250
4÷6 (12÷10)	6	CGP-M 6/1*	6,6	11,0	8,1	5,5	27,7	6,4	1.250
	7	CGP-M 7	6,6	11,0	11,1	5,5	30,7	7,2	1.000
	8	CGP-M 8	6,6	13,6	12,1	6,8	33,0	8,4	1.250
	8	CGP-M 8/1*	6,6	11,0	8,1	5,5	27,7	8,4	1.250



Interchangeable application heads are available for crimping these terminals with the bench press ELB-3 (see page 132).

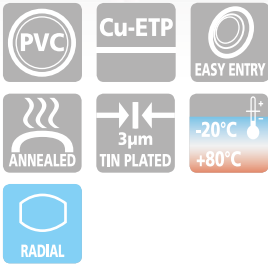
*Not UL approved *Made to order

F range funnel entry - for Copper conductors



The unique funnel shaped PVC sleeve guarantees total insertion of the conductor strands into the terminal barrel, creating a secure and reliable, electrical and mechanical connection.

The operating temperature range is -20 to +80°C (Surge +90°C). Recommended crimping tools are shown on pages 108 to 129, 168.

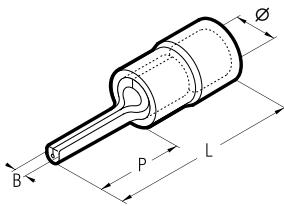


The internal surface of the barrel is rifled to improve contact with conductor strands when crimped and to increase tensile strength.

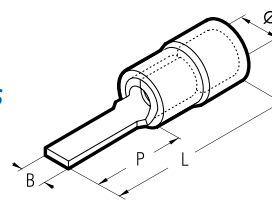
The "F" range of terminals offers a wide selection of rings, forks, pins and blades, designed to meet the ever changing end user requirements.



pin terminals



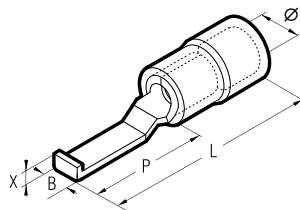
blade terminals



Conductor Size sqmm (AWG)	Type	Dimensions mm				Quantity Box/Bag
		Ø	B	P	L	
0,25÷1,5 (22÷16)	RF-P8	3,9	1,6	8,0	17,9	3.000/100
	RF-P10	3,9	1,6	10,0	19,9	3.000/100
	RF-P12	3,9	1,6	12,0	22,1	3.000/100
1,5÷2,5 (16÷14)	BF-P8	4,9	1,7	8,0	17,9	2.500/100
	BF-P10	4,9	1,8	10,0	19,9	2.500/100
	BF-P12	4,9	1,8	12,0	21,9	2.500/100
4÷6 (12÷10)	GF-P10	6,7	2,2	10,0	24,6	1.000/100
	GF-P12	6,7	2,2	12,0	26,8	1.000/100
	GF-P14	6,7	2,2	14,0	28,8	1.000/100

Conductor Size sqmm (AWG)	Type	Dimensions mm				Quantity Box/Bag
		Ø	B	P	L	
0,25÷1,5 (22÷16)	RF-PP12	3,9	3,0	12,8	22,9	3.000/100
	RF-PP12/1	3,9	3,0	11,3	21,4	3.000/100
	RF-PP12/19	3,9	1,9	13,2	23,3	3.000/100
	RF-PP12/23	3,9	2,3	13,2	23,3	2.500/100
	RF-PP14	3,9	3,0	14,8	24,9	2.500/100
	RF-PP16/23	3,9	2,3	17,2	27,3	2.500/100
1,5÷2,5 (16÷14)	BF-PP12	4,9	3,5	12,8	22,9	2.500/100
	BF-PP12/25	4,9	2,5	13,3	23,4	2.000/100
	BF-PP12/29*	4,9	2,9	13,3	23,4	2.500/100
	BF-PP16/25	4,9	2,5	17,2	27,3	2.500/100
4÷6 (12÷10)	GF-PP12	6,7	4,0	13,3	27,5	1.000/100
	GF-PP17	6,7	2,9	19,2	33,4	1.000/100

hooked blade terminals



Conductor Size sqmm (AWG)	Type	Dimensions mm					Quantity Box/Bag
		Ø	B	P	L	X	
0,25÷1,5 (22÷16)	RF-PPL30*	3,9	3,0	17,5	28,4	1,7	2.500/100
	RF-PPL46*	3,9	4,6	17,5	28,4	1,7	2.500/100
1,5÷2,5 (16÷14)	BF-PPL30*	4,9	3,0	17,5	28,4	1,7	2.000/100
	BF-PPL46*	4,9	4,6	17,5	28,4	1,7	2.000/100
4÷6 (12÷10)	GF-PPL46*	6,7	4,6	17,5	32,7	1,9	1.000/100

*Not UL approved

PVC INSULATED CRIMP TERMINALS

RF BF GF

F range funnel entry - for Copper conductors



VALSTAR-V3-F

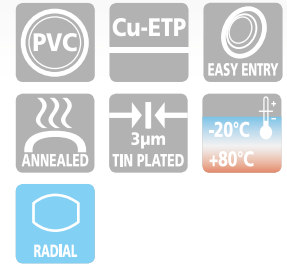


Robust plastic case with compartments, containing:

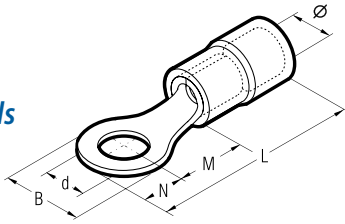
- An assortment of PVC insulated crimp terminals for conductor sizes 0,25 to 6 mm² (22÷10 AWG).
- Tool Crimpstar® HP 3.

Connectors included:

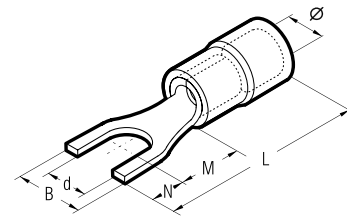
- Qty 50 terminals RF-U4
- Qty 50 terminals RF-U5
- Qty 50 terminals RF-P10
- Qty 50 terminals BF-U4
- Qty 50 terminals BF-U5
- Qty 50 terminals BF-P10
- Qty 25 terminals GF-U5
- Qty 25 terminals GF-U6
- Qty 25 terminals GF-P12
- Qty 25 connectors PL06-M
- Qty 25 connectors PL1-M



ring terminals



fork/spade terminals



Conductor Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm					Quantity Box/Bag	
			Ø	B	M	N	L		d
0,25÷1,5 (22÷16)		2 RF-M2**	3,9	5,6	4,5	2,8	17,4	2,2	3.000/100
		3 RF-M3	3,9	5,6	4,5	2,8	17,4	3,2	3.000/100
		3,5 RF-M3.5	3,9	5,6	4,5	2,8	17,4	3,7	3.000/100
		3,5 RF-M3.5/1	3,9	6,2	7,1	3,1	20,3	3,7	3.000/100
		4 RF-M4	3,9	7,0	6,5	3,5	20,1	4,3	3.000/100
		4 RF-M4/3*	3,9	7,8	7,1	3,9	21,1	4,3	3.000/100
		5 RF-M5	3,9	7,8	7,1	3,9	21,1	5,3	2.500/100
		6 RF-M6	3,9	9,4	8,1	4,7	22,9	6,4	2.500/100
		6 RF-M6/1	3,9	12,0	10,3	6,0	26,4	6,4	2.000/100
		7 RF-M7	3,9	9,4	8,1	4,7	22,9	7,2	2.500/100
		8 RF-M8	3,9	12,0	10,3	6,0	26,4	8,4	2.000/100
		10 RF-M10	3,9	15,5	13,0	7,7	30,9	10,5	1.500/100
		12 RF-M12	3,9	18,0	15,5	9,0	34,6	13,0	1.500/100
		2 BF-M2**	4,9	5,6	5,0	2,8	17,9	2,2	3.000/100
		3 BF-M3	4,9	5,6	5,0	2,8	17,9	3,2	2.500/100
		3,5 BF-M3.5	4,9	5,6	5,0	2,8	17,9	3,7	2.500/100
		3,5 BF-M3.5/1	4,9	6,2	6,5	3,1	19,7	3,7	2.500/100
		4 BF-M4	4,9	8,0	6,5	4,0	20,6	4,3	2.500/100
		5 BF-M5	4,9	8,0	7,5	4,0	21,6	5,3	2.000/100
		6 BF-M6	4,9	9,4	8,6	4,7	23,4	6,4	2.000/100
		6 BF-M6/1	4,9	12,0	10,3	6,0	26,4	6,4	2.000/100
		6 BF-M6/2**	4,9	8,4	5,4	4,2	19,7	6,4	2.500/100
		7 BF-M7	4,9	10,0	7,8	5,0	22,9	7,2	2.000/100
		8 BF-M8	4,9	12,0	10,3	6,0	26,4	8,4	1.500/100
		10 BF-M10	4,9	15,5	13,0	7,7	30,9	10,5	1.500/100
		12 BF-M12	4,9	18	15,5	9,0	34,6	13,0	1.000/100
		3 GF-M3	6,7	8,0	8,1	4,0	26,3	3,2	1.000/100
		3,5 GF-M3.5	6,7	8,0	8,1	4,0	26,3	3,7	1.000/100
		4 GF-M4	6,7	9,0	8,1	4,5	26,8	4,3	1.000/100
		5 GF-M5	6,7	9,0	8,1	4,5	26,8	5,3	1.000/100
		6 GF-M6	6,7	11,0	11,1	5,5	30,8	6,4	1.000/100
		6 GF-M6/1	6,7	11,0	8,1	5,5	27,8	6,4	1.000/100
		7 GF-M7	6,7	11,0	11,1	5,5	30,8	7,2	1.000/100
		8 GF-M8	6,7	13,6	12,1	6,8	33,1	8,4	800/100
		8 GF-M8/1**	6,7	11,0	8,1	5,5	27,8	8,4	1.000/100
		10 GF-M10	6,7	13,6	12,1	6,8	33,1	10,5	1.000/100
		10 GF-M10/1	6,7	15,5	13,8	7,7	35,8	10,5	1.000/100
		12 GF-M12	6,7	19,0	15,1	9,5	38,8	13,0	500/100
		14 GF-M14	6,7	21,0	16,1	10,5	40,8	15,0	500/100
		16 GF-M16	6,7	24,0	17,1	12,0	43,3	17,0	500/100

Conductor Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm					Quantity Box/Bag	
			Ø	B	M	N	L		d
0,25÷1,5 (22÷16)		3 RF-U3	3,9	5,5	5,5	4,0	19,6	3,2	3.000/100
		3,5 RF-U3.5	3,9	6,0	6,5	3,8	20,4	3,7	3.000/100
		3,5 RF-U3.5/1	3,9	7,2	6,5	3,8	20,4	3,7	3.000/100
		3,5 RF-U3.5/2*	3,9	6,4	6,5	3,8	20,4	3,7	3.000/100
		4 RF-U4	3,9	6,5	7,5	3,7	21,3	4,3	3.000/100
		4 RF-U4/1	3,9	8,5	7,5	3,7	21,3	4,3	3.000/100
		4 RF-U4/2	3,9	7,5	7,5	3,7	21,3	4,3	3.000/100
		5 RF-U5	3,9	8,5	7,5	3,7	21,3	5,3	2.500/100
		5 RF-U5/1**	3,9	9,4	7,5	3,7	21,3	5,3	3.000/100
		6 RF-U6	3,9	9,4	8,1	4,7	22,9	6,4	2.000/100
		6 RF-U6/1	3,9	12,0	9,2	7,1	26,4	6,4	2.500/100
		8 RF-U8	3,9	14,0	10,0	6,3	26,4	8,4	2.000/100
		10 RF-U10	3,9	17,5	13,0	7,7	30,9	10,5	1.500/100
		12 RF-U12	3,9	20,0	15,5	9,0	34,6	13,0	1.500/100
		3 BF-U3	4,9	5,5	5,5	4,0	19,6	3,2	2.500/100
		3,5 BF-U3.5	4,9	6,4	6,5	3,8	20,4	3,7	2.500/100
		3,5 BF-U3.5/1*	4,9	7,2	6,5	3,8	20,4	3,7	3.000/100
		4 BF-U4	4,9	6,5	7,5	3,7	21,3	4,3	2.500/100
		4 BF-U4/1	4,9	8,5	7,5	3,7	21,3	4,3	2.000/100
		4 BF-U4/2	4,9	7,5	7,5	3,7	21,3	4,3	2.000/100
		5 BF-U5	4,9	8,5	7,5	3,7	21,3	5,3	2.000/100
		5 BF-U5/2*	4,9	12,0	11,3	5,0	26,3	5,3	1.500/100
		6 BF-U6	4,9	9,4	8,1	4,7	22,9	6,4	2.000/100
		6 BF-U6/1	4,9	12,0	9,2	7,1	26,4	6,4	2.000/100
		8 BF-U8	4,9	14,0	10,0	6,3	26,4	8,4	1.500/100
		10 BF-U10	4,9	17,5	13,0	7,7	30,9	10,5	1.000/100
		12 BF-U12	4,9	20,0	15,5	9,0	34,6	13,0	1.500/100
		3,5 GF-U3.5	6,7	7,5	8,5	3,9	26,6	3,7	1.000/100
		4 GF-U4	6,7	7,5	8,0	4,4	26,6	4,3	1.000/100
		5 GF-U5	6,7	9,5	8,0	4,4	26,6	5,3	1.000/100
		6 GF-U6	6,7	10,0	11,0	5,5	30,7	6,4	1.000/100
		8 GF-U8	6,7	13,5	12,0	8,0	34,2	8,4	1.000/100
		10 GF-U10	6,7	15,5	13,0	8,0	35,2	10,5	1.000/100
		10 GF-U10/1	6,7	17,5	13,8	7,7	35,8	10,5	1.000/100
		12 GF-U12	6,7	21,0	15,1	9,5	38,8	13,0	500/100
		14 GF-U14	6,7	23,0	16,1	10,5	40,8	15,0	500/100
		16 GF-U16	6,7	26,0	17,1	11,5	42,8	17,0	500/100

*Not UL approved **Made to order

RKY BKY GKY

REINFORCED PA 6.6 INSULATED TERMINALS

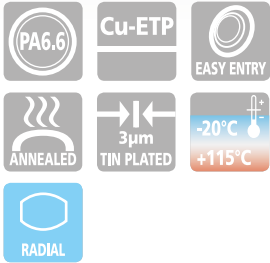
KY range - for Copper conductors



'KY' type terminals are designed to offer improved mechanical and electrical integrity under heavy-duty application.

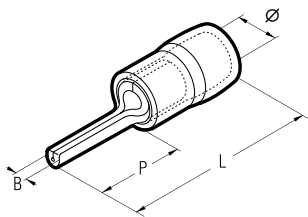
This is achieved via a Copper sleeve located between the Copper barrel and Polyamide insulation of the terminal. Then, during crimping, the insulation of the conductor is integrated into the crimp due to the Copper sleeve being deformed around it to maintain the level of 'grip' required in applications subject to continuous mechanical vibrations (e.g: mobile plant, vehicles, moving components).

The operating temperature range is – 20 to + 115°C (Surge + 130°C). Recommended crimping tools are shown on pages 108 to 129, 168.



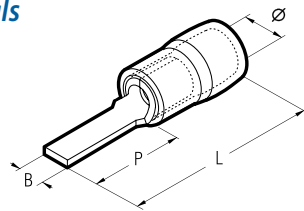
HF
HALOGEN
FREE

pin terminals



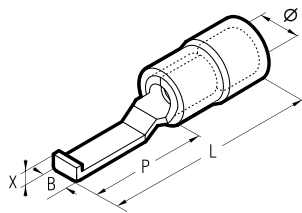
Conductor Size sqmm (AWG)	Type	Dimensions mm				Quantity Box/Bag
		Ø	B	P	L	
0,25÷1,5 (22÷16)	RKY-P8	4,5	1,9	9,0	19,8	3.000/100
	RKY-P10	4,5	1,9	10,0	20,8	3.500/100
	RKY-P12	4,5	1,9	12,0	22,8	3.000/100
1,5÷2,5 (16÷14)	BKY-P8	5,2	1,9	9,0	19,8	3.000/100
	BKY-P10	5,2	1,9	10,0	20,8	3.000/100
	BKY-P12	5,2	1,9	12,0	22,8	3.000/100
4÷6 (12÷10)	GKY-P14	7,0	2,8	14,0	27,0	1.000/100

blade terminals



Conductor Size sqmm (AWG)	Type	Dimensions mm				Quantity Box/Bag
		Ø	B	P	L	
0,25÷1,5 (22÷16)	RKY-PP12	4,5	3,0	13,0	23,8	3.000/100
	RKY-PP12/19	4,5	2,0	18,0	28,8	3.000/100
	RKY-PP16/23	4,5	2,2	18,0	28,8	2.500/100
1,5÷2,5 (16÷14)	BKY-PP12	5,2	3,0	13,0	23,8	2.500/100
	BKY-PP12/25	5,2	2,4	13,0	23,8	2.000/100
	BKY-PP16/23	5,2	2,2	18,0	28,8	2.500/100
4÷6 (12÷10)	GKY-PP12	7,0	4,0	14,0	27,0	1.000/100
	GKY-PP17	7,0	2,0	18,0	31,0	1.000/100

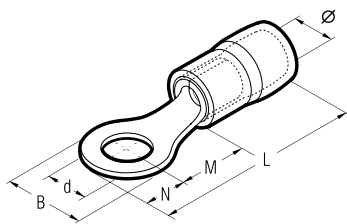
hooked blade terminals



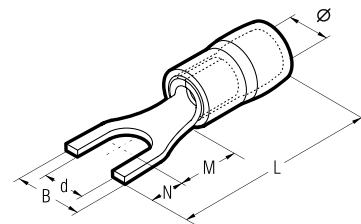
Conductor Size sqmm (AWG)	Type	Dimensions mm					Quantity Box/Bag
		Ø	B	P	L	X	
0,25÷1,5 (22÷16)	RKY-PPL30	4,5	3,0	16,8	28,2	2,1	3.000/100
	RKY-PPL46	4,5	4,6	16,8	28,2	2,1	3.000/100
1,5÷2,5 (16÷14)	BKY-PPL30	5,2	3,0	16,8	28,2	2,1	2.500/100
	BKY-PPL46	5,2	4,6	16,8	28,2	2,1	2.500/100
4÷6 (12÷10)	GKY-PPL46	7,0	4,6	17,2	30,2	2,4	1.000/100

Consult Cembre for a wider range of pin and blade dimensions.

ring terminals



fork/spade terminals



Cond. Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag
			Ø	B	M	N	L	d	
0,25÷1,5 (22÷16)	3	RKY-M3	4,5	5,5	5,0	2,5	18,5	3,2	3.000/100
	3,5	RKY-M3.5	4,5	5,5	5,0	2,5	18,5	3,7	3.000/100
	3,5	RKY-M3.5/1	4,5	6,6	6,3	3,1	20,4	3,7	3.000/100
	4	RKY-M4	4,5	6,6	6,3	3,1	20,4	4,3	3.000/100
	5	RKY-M5	4,5	8,0	7,0	3,8	21,8	5,3	2.500/100
	6	RKY-M6/1	4,5	11,6	11,0	5,8	27,8	6,4	2.000/100
	8	RKY-M8	4,5	11,6	11,0	5,8	27,8	8,4	2.500/100
	10	RKY-M10	4,5	13,6	13,9	6,6	31,5	10,5	1.500/100
	12	RKY-M12	4,5	19,6	16,0	9,4	36,4	13,0	1.500/100
	3	BKY-M3	5,2	6,6	4,8	3,0	18,8	3,2	2.500/100
	3,5	BKY-M3.5	5,2	6,6	4,8	3,0	18,8	3,7	2.500/100
	1,5÷2,5 (16÷14)	3,5	BKY-M3.5/1	5,2	6,6	6,3	3,1	20,4	3,7
4		BKY-M4	5,2	8,5	7,8	4,0	22,8	4,3	2.500/100
5		BKY-M5	5,2	8,5	7,8	4,0	22,8	5,3	2.500/100
6		BKY-M6/1	5,2	12,0	11,0	5,8	27,8	6,4	2.500/100
8		BKY-M8	5,2	12,0	11,0	5,8	27,8	8,4	1.500/100
10		BKY-M10	5,2	13,6	13,9	6,6	31,5	10,5	1.500/100
4÷6 (12÷10)	12	BKY-M12	5,2	19,2	16,0	9,4	36,4	13,0	1.000/100
	3,5	GKY-M3.5	7,0	7,2	6,1	3,6	22,7	3,7	1.000/100
	4	GKY-M4	7,0	9,5	9,1	4,5	26,6	4,3	1.000/100
	5	GKY-M5	7,0	9,5	9,1	4,5	26,6	5,3	1.000/100
	6	GKY-M6	7,0	12,0	10,5	6,0	29,5	6,4	1.000/100
	8	GKY-M8	7,0	15,0	13,5	7,5	34,0	8,4	1.000/100
	10	GKY-M10	7,0	15,0	13,5	7,5	34,0	10,5	1.000/100
	12	GKY-M12	7,0	19,2	16,0	9,6	38,6	13,0	1.000/100
14	GKY-M14	7,0	32,0	25,2	16,0	54,2	15,0	500/100	
16	GKY-M16	7,0	32,0	25,2	16,0	54,2	17,0	500/100	

Cond. Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag
			Ø	B	M	N	L	d	
0,25÷1,5 (22÷16)	3	RKY-U3	4,5	5,7	6,5	4,5	22,0	3,2	2.500/100
	3,5	RKY-U3.5	4,5	5,7	6,5	4,5	22,0	3,7	2.500/100
	4	RKY-U4	4,5	6,4	6,5	4,5	22,0	4,3	3.000/100
	5	RKY-U5	4,5	8,1	6,5	4,5	22,0	5,3	3.000/100
	6	RKY-U6	4,5	9,5	6,5	4,5	22,0	6,4	2.000/100
	6	RKY-U6/1	4,5	12,0	11,0	6,0	28,0	6,4	2.000/100
1,5÷2,5 (16÷14)	3	BKY-U3	5,2	5,7	6,5	4,5	22,0	3,2	2.500/100
	3,5	BKY-U3.5	5,2	6,0	6,5	4,5	22,0	3,7	2.500/100
	4	BKY-U4	5,2	6,4	6,5	4,5	22,0	4,3	2.500/100
	5	BKY-U5	5,2	7,9	6,5	4,5	22,0	5,3	2.500/100
	6	BKY-U6	5,2	9,3	6,5	4,5	22,0	6,4	2.000/100
	6	BKY-U6/1	5,2	12,0	11,0	6,0	28,0	6,4	2.000/100
4÷6 (12÷10)	3,5	GKY-U3.5	7,0	7,2	7,5	3,9	24,4	3,7	1.500/100
	4	GKY-U4	7,0	7,2	7,5	3,9	24,4	4,3	1.000/100
	5	GKY-U5	7,0	9,0	7,0	5,5	25,5	5,3	1.000/100
	6	GKY-U6	7,0	12,0	12,0	6,5	31,5	6,4	1.000/100
8	GKY-U8	7,0	14,0	10,5	7,0	30,5	8,4	1.000/100	

Consult Cembre for a wider range of pin and blade dimensions.

RF-F BF-F GF-F



Recommended crimping tools are shown on pages 108 to 129, 168.

Polycarbonate insulated terminals partially reinforced with Copper sleeve

Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RF-F305	2,8 x 0,5	3.000/100
	RF-F308*	2,8 x 0,8	3.000/100
	RF-F405	4,8 x 0,5	2.500/100
	RF-F408	4,8 x 0,8	2.500/100
1,5÷2,5 (16÷14)	RF-F608	6,35 x 0,8	2.500/100
	BF-F405	4,8 x 0,5	2.500/100
	BF-F408	4,8 x 0,8	2.500/100
4÷6 (12÷10)	BF-F608	6,35 x 0,8	1.500/100
	GF-F608	6,35 x 0,8	1.000/100

FEMALE DISCONNECT TERMINALS

for Copper conductors

Certified according to EN 45545-2:2013

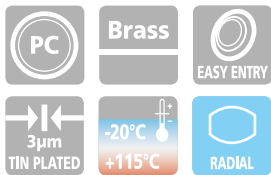
HF HALOGEN FREE

UL US File no. E212000

Polycarbonate fully insulated terminals partially reinforced with Copper sleeve

Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RF-F305P	2,8 x 0,5	2.000/100
	RF-F308P*	2,8 x 0,8	2.000/100
	RF-F405P	4,8 x 0,5	1.500/100
	RF-F408P	4,8 x 0,8	1.500/100
1,5÷2,5 (16÷14)	RF-F608P	6,35 x 0,8	1.000/100
	BF-F405P	4,8 x 0,5	1.500/100
	BF-F408P	4,8 x 0,8	1.500/100
4÷6 (12÷10)	BF-F608P	6,35 x 0,8	1.000/100
	GF-F608P	6,35 x 0,8	800/100

RF-M BF-M GF-M



Recommended crimping tools are shown on pages 108 to 129, 168.

Polycarbonate insulated terminals partially reinforced with Copper sleeve

Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RF-M608	6,35 x 0,8	3.000/100
1,5÷2,5 (16÷14)	BF-M608	6,35 x 0,8	2.000/100
4÷6 (12÷10)	GF-M608	6,35 x 0,8	1.000/100

MALE DISCONNECT TERMINALS

for Copper conductors

Certified according to EN 45545-2:2013

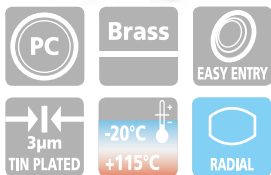
HF HALOGEN FREE

UL US File no. E212000

Polycarbonate fully insulated terminals partially reinforced with Copper sleeve

Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RF-M608P	6,35 x 0,8	1.000/100
1,5÷2,5 (16÷14)	BF-M608P	6,35 x 0,8	1.000/100

RF-FM BF-FM RF-B BF-B



Recommended crimping tools are shown on pages 108 to 129, 168.

Polycarbonate insulated terminals partially reinforced with Copper sleeve

Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RF-FM608	6,35 x 0,8	1.000/100
1,5÷2,5 (16÷14)	BF-FM608	6,35 x 0,8	1.000/100

BULLET AND SOCKET

for Copper conductors

Certified according to EN 45545-2:2013

HF HALOGEN FREE

UL US File no. E212000

Polycarbonate insulated terminals partially reinforced with Copper sleeve

Conductor Size sqmm (AWG)	Type	Ø mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RF-BM4*	4	2.500/100
	RF-BF4*	4	800/100
1,5÷2,5 (16÷14)	BF-BM5*	5	2.000/100
	BF-BF5*	5	800/100

*Not UL approved

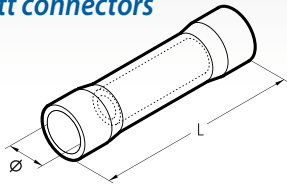
BUTT AND PARALLEL CONNECTORS

for Copper conductors



PVC insulated

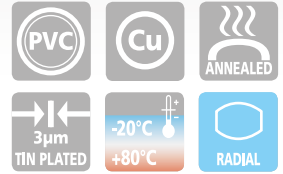
butt connectors



parallel connectors

Recommended crimping tools are shown on pages 108 to 129, 168.

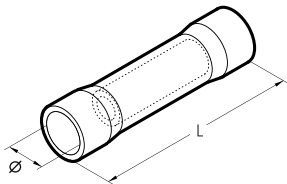
Conductor Size sqmm (AWG)	Type	ø mm	L mm	Quantity Box/Bag
0,25÷0,5 (24÷20)	PL01-M*	3,0	25,0	3.000/100
0,25÷1,5 (22÷16)	PL03-M	4,0	25,0	1.000/100
1,5÷2,5 (16÷14)	PL06-M	5,0	25,0	1.500/100
4÷6 (12÷10)	PL1-M	6,5	32,0	500/100
0,25÷1,5 (22÷16)	PL03-P*	4,0	20,0	3.000/100
1,5÷2,5 (16÷14)	PL06-P*	5,0	16,0	2.000/100



BUTT CONNECTORS

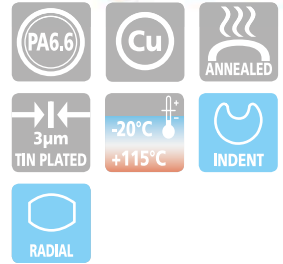
for Copper conductors

Recommended crimping tools are shown on pages 108 to 129, 168.

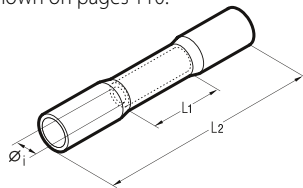


Polyamide PA6.6 insulated

Conductor Size sqmm (AWG)	Type	ø mm	L mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	NL03-M	4,0	25,0	1.000/100
1,5÷2,5 (16÷14)	NL06-M	5,4	25,5	1.500/100
4÷6 (12÷10)	NL1-M	7,6	32,0	500/100
10 (8÷7)	NL2-M	8,0	43,0	500/100
16 (6÷5)	NL3-M	9,2	44,0	500/100



Recommended crimping tools are shown on pages 110.



PE HD insulated, heat shrinkable

Conductor Size sqmm (AWG)	Type	ø mm	L1 mm	L2 mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	WL03-M	1,7	15,0	36,0	1.500/100
1,5÷2,5 (16÷14)	WL06-M	2,3	15,0	36,5	1.000/100
4÷6 (12÷10)	WL1-M	3,4	15,0	41,0	500/100

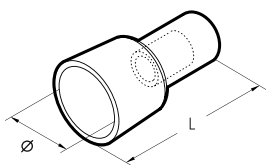
- Max operating voltage: 600 V
- Shrink temperature: 150 °C
- Protection: IP68



CLOSE END CONNECTORS

for Copper conductors

Recommended crimping tools are shown on pages 108 to 129, 168.



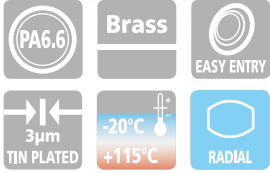
Polyamide PA6.6 insulated

Conductor Size sqmm (AWG)	Type	ø mm	L mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	NL03-P	7,9	21,0	1.000/100
1,5÷2,5 (16÷14)	NL06-P	7,9	19,9	1.000/100
4÷6 (12÷10)	NL06-PB	6,5	13,6	1.500/100
10 (8÷7)	NL1-P	10,5	21,5	500/100
16 (6÷5)	NL1-PG	9,0	17,8	1.000/100



*Not UL approved

RKF-F BKF-F GK-F



Recommended crimping tools are shown on pages 108 to 129, 168.

female connectors, fully reinforced with Copper sleeve

PA6.6 insulated terminals

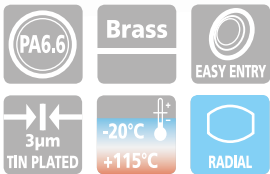
Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RKF-F305	2,8 x 0,5	3.000/100
	RKF-F308	2,8 x 0,8	3.000/100
	RKF-F405	4,8 x 0,5	2.500/100
	RKF-F408	4,8 x 0,8	2.500/100
1,5÷2,5 (16÷14)	RKF-F608	6,35 x 0,8	2.500/100
	BKF-F405	4,8 x 0,5	3.000/100
	BKF-F408	4,8 x 0,8	3.000/100
4÷6 (12÷10)	GK-F608	6,35 x 0,8	1.500/100

PA6.6 fully insulated terminals

Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RKF-F405P	4,8 x 0,5	1.500/100
	RKF-F408P	4,8 x 0,8	2.000/100
1,5÷2,5 (16÷14)	RKF-F608P	6,35 x 0,8	1.000/100
	BKF-F405P	4,8 x 0,5	2.000/100
4÷6 (12÷10)	BKF-F408P	4,8 x 0,8	2.000/100
	GK-F608P	6,35 x 0,8	1.000/100

HF
HALOGEN FREE

RKF BKF GK-F



male connectors, fully reinforced with Copper sleeve - PA6.6 insulated terminals

Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RKF-M608	6,35 x 0,8	3.000/100
1,5÷2,5 (16÷14)	BKF-M608	6,35 x 0,8	2.500/100
4÷6 (12÷10)	GKF-M608	6,35 x 0,8	1.000/100

male/female connectors, fully reinforced with Copper sleeve PA6.6 insulated terminals

Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RKF-FM608	6,35 x 0,8	1.500/100
1,5÷2,5 (16÷14)	BKF-FM608	6,35 x 0,8	1.500/100

Recommended crimping tools are shown on pages 108 to 129, 168.

HF
HALOGEN FREE

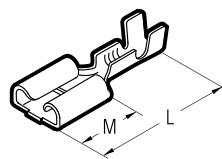
bullet and socket connectors fully reinforced with Copper sleeve PA6.6 insulated terminals

Conductor Size sqmm (AWG)	Type	Ø mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RKF-BM4	4	2.500/100
	RKF-BF4	4	1.000/100
1,5÷2,5 (16÷14)	BKF-BM4	5	2.000/100
	BKF-BF4	5	800/100

RN-FA BN-FA



Recommended crimping tools are shown on pages 108 to 129, 168.



FEMALE CONNECTORS

for Copper conductors

Conductor Size sqmm (AWG)	Type	Tab Size mm	M mm	L mm	Quantity Box/Bag
0,5÷1 (20÷17)	RN-FA305	2,8 x 0,5	6,3	15,0	6.000/100
	RN-FA405	4,8 x 0,5	6,3	15,0	5.000/100
	RN-FA608	6,3 x 0,8	7,7	19,0	3.000/100
1÷2,5 (17÷14)	BN-FA608	6,3 x 0,8	7,7	19,0	2.000/100
	BN-FAB608*	6,3 x 0,8	7,7	15,5	1.000/100
	BN-FAR608**	6,3 x 0,8	7,7	19,0	3.000/100

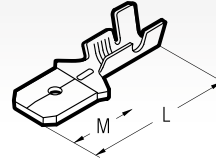
*flag type **with retainer

MALE CONNECTORS

open barrel - for Copper conductors

Conductor Size sqmm (AWG)	Type	Tab Size mm	M mm	L mm	Quantity Box/Bag
0,5÷1 (20÷17)	RN-MA305	2,8 x 0,5	5,8	13,0	6.000/100
	RN-MA405	4,8 x 0,5	6,3	17,3	5.000/100
	RN-MA608	6,3 x 0,8	7,9	19,7	4.000/100
1÷2,5 (17÷14)	BN-MA608	6,3 x 0,8	7,9	20,0	4.000/100

Recommended crimping tools are shown on pages 114.



RN-MA BN-MA

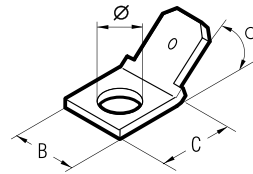


MALE TABS

for board mounting - for Copper conductors

Type	Tab Size mm	Ø Stud mm	B mm	C mm	α	Quantity Box/Bag
MP608	6,3 x 0,8	4,0	8,0	8,5	0°	5.000/100
MP608/45	6,3 x 0,8	4,0	8,0	8,5	45°	6.000/100
MP608/90	6,3 x 0,8	4,0	8,0	8,5	90°	5.000/100
MP608D*	6,3 x 0,8	5,0	8,0	14,0	0°	5.000/100

*double tab



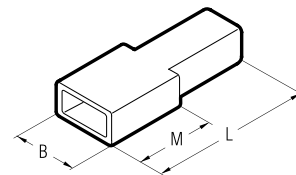
MP MPD



CONNECTOR SLEEVES

Type	Connector	B mm	M mm	L mm	Material	Quantity Box/Bag
CFA300	Female 2,8	5,5	7	18	Polyethylene	3.000/100
CFA400*	Female 4,8	7,5	9	20	Polyethylene	2.000/100
CFA600*	Female 6,3	9,0	11	24	Polyethylene	1.000/100
CFA2600**	Female 6,3	9,0	9	22	Polyethylene	1.500/100
CFAR600	Female 6,3 with retainer	9,0	12	25	Polyamide 6.6	500/100
CFAB600	Female 6,3 flag	10,0	-	18	Polyamide 6.6	1.000/100
CMA600*	Male 6,3	12,0	11	22	Polyethylene	1.000/100

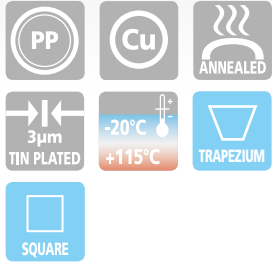
CFA CMA



*For a single cable.
Colours available:
Transparent: no suffix
Red: add suffix R
Black: add suffix N

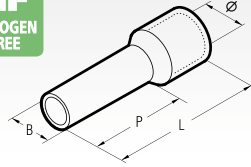
**For twin cables.
Colours available:
Transparent: no suffix
Red: add suffix R
Black: add suffix N
Green: add suffix V
Blue: add suffix B
Yellow: add suffix G

PKE



The PKE, PKC, CPKD range of end sleeves is manufactured from Tin plated electrolytic Copper. Designed and developed to reinforce fine wire strands when terminating a cable into a connector block. The operating temperature range is -20 to +105°C (Surge +110°C). Recommended crimping tools are shown on pages 108 to 132, 137-138, 168, 170-171.

HF
HALOGEN
FREE



VALSTAR-ND2/PKE

Comprising:

- a selection of end sleeves PKE conductor size 1÷6 sqmm
- tool ND2

POLYPROPYLENE INSULATED END SLEEVES

for flexible Copper conductors

Conductor Size sqmm	Type	Dimensions mm				Insulation Colour	Quantity Box/Bag
		Ø	B	P	L		
0,1÷0,3	PKE308	1,9	1,1	8,0	12,4	yellow	25.000/500
	PKE508	2,6	1,3	8,0	14,0	white	10.000/500
0,3÷0,5	PKE7508	3,4	1,6	8,2	14,6	blue	10.000/500
	PKE108	3,4	1,8	8,2	14,6	red	10.000/500
1	PKE1508	3,8	2,1	8,2	14,6		10.000/500
	PKE1510	3,8	2,1	18,0	24,4	black	5.000/500
1,5	PKE1518	4,4	2,6	8,2	15,2		7.500/500
	PKE2508	4,4	2,6	18,0	25,0		5.000/500
2,5	PKE2512	4,8	3,2	9,0	16,0	grey	5.000/200
	PKE2518	4,8	3,2	18,0	25,0		3.000/200
4	PKE410	5,8	3,9	12,0	20,0		2.500/100
	PKE412	5,8	3,9	18,0	26,0	orange	2.000/100
6	PKE418	7,4	4,8	12,0	21,5		1.500/100
	PKE612	7,4	4,8	18,0	27,5		1.500/100
10	PKE618	9,3	5,9	12,0	22,7	green	1.000/100
	PKE1012	9,3	5,9	18,0	28,6		1.000/100
16	PKE1018	10,0	7,9	16,0	29,0	brown	500/50
	PKE1612	10,0	7,9	22,0	35,0		500/50
25	PKE1618	8,8	6,2	18,0	29,0	ivory	1.000/100
	PKE25016	11,2	7,9	16,0	30,0	black	500/50
	PKE25022	11,2	7,9	22,0	36,0		500/50

VALSTAR-ND2/PKC

Comprising:

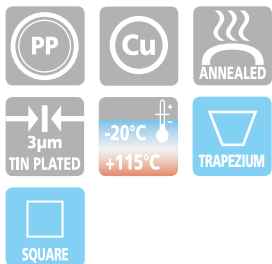
- a selection of end sleeves PKC conductor size 1÷6 sqmm
- tool ND2

VALSTAR-ND2/PKD

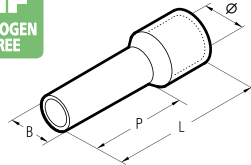
Comprising:

- a selection of end sleeves PKD conductor size 1÷6 sqmm
- tool ND2

PKC



HF
HALOGEN
FREE



POLYPROPYLENE INSULATED END SLEEVES

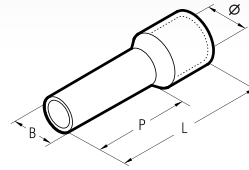
for flexible Copper conductors

Conductor Size sqmm	Type	Dimensions mm				Insulation Colour	Quantity Box/Bag
		Ø	B	P	L		
0,1÷0,3	PKC306	1,9	1,1	6,0	10,4	light blue	25.000/500
	PKC308	1,9	1,1	8,0	12,4	blue	25.000/500
0,3÷0,5	PKC508	2,6	1,3	8,0	14,0	orange	10.000/500
	PKC510	2,6	1,3	10,0	16,0		10.000/500
0,75	PKC7508	3,4	1,6	8,2	14,6	white	10.000/500
	PKC7512	3,4	1,6	12,0	18,4		10.000/500
1	PKC108	3,4	1,8	8,2	14,6	yellow	10.000/500
	PKC112	3,4	1,8	12,0	18,4		10.000/500
1,5	PKC1508	3,8	2,1	8,2	14,6		10.000/500
	PKC1510	3,8	2,1	18,0	24,4	red	5.000/500
2,5	PKC1518	3,9	2,6	8,2	15,2		7.500/500
	PKC2508	3,9	2,6	18,0	25,0		5.000/500
4	PKC2512	4,8	3,2	9,0	16,0	blue	5.000/200
	PKC2518	4,8	3,2	18,0	25,0		3.000/200
6	PKC410	5,8	3,9	12,0	20,0		2.500/100
	PKC412	5,8	3,9	18,0	26,0	grey	2.000/100
10	PKC418	7,4	4,8	12,0	21,5		1.500/100
	PKC612	7,4	4,8	18,0	27,5	black	1.500/100
16	PKC618	9,3	5,9	12,0	22,7		1.000/100
	PKC1012	9,3	5,9	18,0	28,6	ivory	1.000/100
25	PKC1018	10,0	7,9	16,0	29,0		500/50
	PKC1612	10,0	7,9	22,0	35,0	green	500/50
35	PKC1618	12,0	8,9	16,0	30,0		500/50
	PKC25016	12,0	8,9	25,0	39,0	brown	400/50
50	PKC25022	13,8	11,0	20,0	36,0		300/50
	PKC35016	13,8	11,0	30,0	46,0	beige	250/50
70	PKC35025	16,0	14,3	22,0	38,0		100/25
	PKC50020	18,0	15,7	25,0	44,0	olive	100/25
95	PKC50025	21,0	17,5	27,0	48,0		100/25
	PKC70022	16,0	14,3	22,0	38,0	yellow	100/25
120	PKC95025	18,0	15,7	25,0	44,0	red	100/25
	PKC120027	21,0	17,5	27,0	48,0	blue	100/25

PA6 INSULATED END SLEEVES

for flexible Copper conductors

Conductor Size sqmm	Type	Dimensions mm				Insulation Colour	Quantity Box/Bag
		Ø	B	P	L		
0,3÷0,5	PKD506	2,6	1,4	6,0	12,0	○ white	10.000/500
	PKD508	2,6	1,4	8,0	14,0		10.000/500
	PKD510	2,6	1,4	10,0	16,0		10.000/500
0,75	PKD7506	2,8	1,6	6,0	12,0	● grey	10.000/500
	PKD7508	2,8	1,6	8,0	14,0		10.000/500
	PKD7510	2,8	1,6	10,0	16,0		10.000/500
	PKD7512	2,8	1,6	12,0	18,0		10.000/500
1	PKD106	3,0	1,8	6,0	12,0	● red	10.000/500
	PKD108	3,0	1,8	8,0	14,0		10.000/500
	PKD110	3,0	1,8	10,0	16,0		10.000/500
	PKD112	3,0	1,8	12,0	18,0		10.000/500
1,5	PKD1508	3,5	2,1	8,0	14,0	● black	5.000/500
	PKD1510	3,5	2,1	10,0	16,0		5.000/500
	PKD1512	3,5	2,1	12,0	18,0		5.000/500
	PKD1518	3,5	2,1	18,0	24,0		5.000/500
2,5	PKD2508	4,2	2,6	8,0	14,0	● blue	5.000/500
	PKD2512	4,2	2,6	12,0	18,0		4.000/500
	PKD2518	4,2	2,6	18,0	24,0		5.000/500
4	PKD410	4,8	3,3	10,0	18,0	● grey	3.000/200
	PKD412	4,8	3,3	12,0	20,0		3.000/200
	PKD418	4,8	3,3	18,0	26,0		3.000/200
6	PKD612	6,3	4,0	12,0	20,0	● yellow	1.500/100
	PKD618	6,3	4,0	18,0	26,0		2.000/100
10	PKD1012	7,6	5,0	12,0	22,0	● red	1.000/100
	PKD1018	7,6	5,0	18,0	28,0		1.000/100
16	PKD1612	8,8	6,4	12,0	24,0	● blue	800/100
	PKD1618	8,8	6,4	18,0	28,0		1.000/100
25	PKD25016	11,2	7,9	16,0	30,0	● yellow	500/50
	PKD25022	11,2	7,9	22,0	36,0		500/50
35	PKD35016	12,7	8,9	16,0	30,0	● red	400/50
	PKD35025	12,7	8,9	25,0	39,0		400/50
50	PKD50020	15,0	11,0	20,0	36,0	● blue	200/50
	PKD50025	15,0	11,0	25,0	41,0		200/50



PKD



The PKD series of insulated end sleeves comply with DIN standard 46228/4.

POLYPROPYLENE INSULATED CHAIN END SLEEVES

for flexible Copper conductors

Conductor Size sqmm	Type	Dimensions mm				Insulation Colour	Quantity Box/Bag
		Ø	B	P	L		
0,3÷0,5	CPKD508	2,6	1,3	8,0	14,0	○ white	5.000
0,75	CPKD7508	2,8	1,5	8,0	14,0	● grey	5.000
1	CPKD108	3,0	1,7	8,0	14,0	● red	5.000
1,5	CPKD1508	3,5	2,0	8,0	14,0	● black	5.000
2,5	CPKD2508	4,2	2,5	8,0	14,0	● blue	3.000

Conforms to DIN standard 46228/4.



Interchangeable application heads are available for crimping these terminals with the bench press ELB-3 (see page 132).

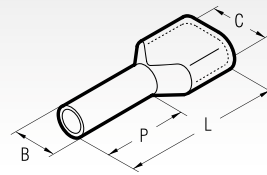
PKET PKCT

"TWIN" POLYPROPYLENE INSULATED END SLEEVES

for fine stranded conductors



HF
HALOGEN
FREE



Type PKET, PKCT ranges of twin end sleeves are manufactured from Tin plated electrolytic Copper. Designed to accommodate two cables terminating in the same sleeve they are ideal for looping conductors. The operating temperature range is -20 to +105°C (Surge +110°C).

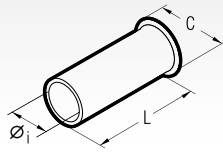
Recommended crimping tools are shown on pages 108 to 132, 137-138, 168, 170-171.

Conductor Size sqmm	Type	Dimensions mm				Insulation Colour	ND1,ND2,ND3, ND4 and HINKE 50 Compression Aperture	Quantity Box/Bag
		C	B	P	L			
2 x 0,5	PKET508	4,6x2,6	1,5	8,0	15,0	○ white	1	500
2 x 0,75	PKET7508	5,2x2,6	2,1	8,0	15,0	● grey	1,5	500
	PKET7512	5,2x2,6	2,1	12,0	19,0			500
2 x 1	PKET108	5,8x3,2	2,6	8,0	16,0	● red	2,5	500
	PKET112	5,8x3,2	2,6	12,0	20,0			500
2 x 1,5	PKET1508	6,5x3,6	2,6	8,0	16,0	● black	2,5	500
	PKET1512	6,5x3,6	2,6	12,0	20,0			500
2 x 2,5	PKET2510	7,5x4,3	3,2	10,0	18,0	● blue	4	250
	PKET2512	7,5x4,3	3,2	12,0	21,0			250
2 x 4	PKET412	9,0x5,2	4,2	12,0	23,0	● grey	6	100
2 x 6	PKET614	10,0x7,2	5,3	14,0	26,0	● yellow	10	100
2 x 10	PKET1014	13,0x7,2	7,0	14,0	26,0	● red	16	100
2 x 16	PKET1616	18,0x9,5	8,8	16,0	30,0	● blue	35	100

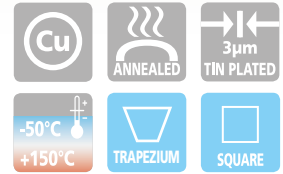
Conductor Size sqmm	Type	Dimensions mm				Insulation Colour	ND1,ND2,ND3, ND4 and HINKE 50 Compression Aperture	Quantity Box/Bag
		C	B	P	L			
2 x 0,5	PKCT508	4,6x2,6	1,5	8,0	15,0	● orange	1	500
2 x 0,75	PKCT7508	5,2x2,6	2,1	8,0	15,0	○ white	1,5	500
	PKCT7512	5,2x2,6	2,1	12,0	19,0			500
2 x 1	PKCT108	5,8x3,2	2,6	8,0	16,0	● yellow	2,5	500
	PKCT112	5,8x3,2	2,6	12,0	20,0			500
2 x 1,5	PKCT1508	6,5x3,6	2,6	8,0	16,0	● red	2,5	500
	PKCT1512	6,5x3,6	2,6	12,0	20,0			500
2 x 2,5	PKCT2510	7,5x4,3	3,2	10,0	18,0	● blue	4	250
	PKCT2512	7,5x4,3	3,2	12,0	21,0			250
2 x 4	PKCT412	9,0x5,2	4,2	12,0	23,0	● grey	6	100
2 x 6	PKCT614	10,0x7,2	5,3	14,0	26,0	● black	10	100
2 x 10	PKCT1014	13,0x7,2	7,0	14,0	26,0	○ ivory	16	100
2 x 16	PKCT1616	18,0x9,5	8,8	16,0	30,0	● green	35	100

UNINSULATED END SLEEVES

for flexible Copper conductors



KE



Conductor Size sqmm	Type	Dimensions mm			Quantity Box/Bag
		Ø	L	C	
0,5	KE506ST*	1,0	6,0	1,9	50.000/500
	KE508ST	1,0	8,0	1,9	50.000/500
0,75	KE7506ST*	1,2	6,0	2,2	40.000/500
	KE7508ST	1,2	8,0	2,2	50.000/500
1	KE106ST*	1,4	6,0	2,4	25.000/500
	KE110ST*	1,4	10,0	2,4	25.000/500
1,5	KE1508ST	1,7	8,0	2,8	25.000/500
	KE1510ST*	1,7	10,0	2,8	25.000/500
2,5	KE2508ST	2,2	8,0	3,4	25.000/500
	KE2510ST*	2,2	10,0	3,4	15.000/500
4	KE410ST	2,8	10,0	4,0	12.500/500
	KE412ST*	2,8	12,0	4,0	10.000/500
6	KE610ST*	3,5	10,0	4,7	10.000/500
	KE612ST*	3,5	12,0	4,7	7.500/500
	KE616ST*	3,5	15,0	4,7	5.000/500
10	KE1016ST*	4,5	15,0	5,8	4.000/250
16	KE1616ST*	5,8	15,0	7,5	3.000/250
25	KE25015ST	7,3	15,0	9,5	1.500/100
	KE25018ST*	7,3	18,0	9,5	1.500/100
35	KE35012ST	8,3	12,0	10,5	1.500/100
	KE35015ST	8,3	16,0	10,5	1.500/100
	KE35018ST*	8,3	18,0	10,5	1.000/100

*to DIN standard 46 228/1

KE series end sleeves are manufactured from Tin plated electrolytic Copper.

Designed and developed for use with flexible cables.

Recommended crimping tools are shown on pages 108 to 132, 137-138, 168, 170-171.

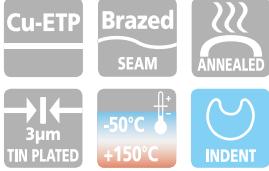
S range - brazed seam - for Copper conductors



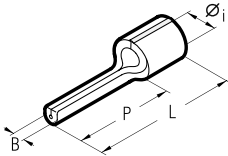
S range terminals are manufactured from electrolytic Copper strip and Tin plated. The seam is brazed to provide uniform mechanical strength.

The terminal barrel is rifled to enhance electrical contact and to improve mechanical strength.

Recommended crimping tools are shown on pages 108 to 129, 168.

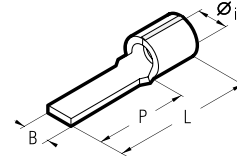


pin terminals



Conductor Size sqmm (AWG)	Type	Dimensions mm				Quantity Box/Bag
		Øi	B	P	L	
0,25÷1,5 [22÷16]	S1.5-P8	1,8	1,6	8,0	12,0	8.000/100
	S1.5-P10	1,8	1,6	10,0	14,0	8.000/100
	S1.5-P12	1,8	1,6	12,0	16,2	8.000/100
1,5÷2,5 [16÷14]	S2.5-P8	2,4	1,7	8,0	12,0	7.000/100
	S2.5-P10	2,4	1,8	10,0	14,0	7.000/100
	S2.5-P12	2,4	1,8	12,0	16,0	7.000/100
4÷6 [12÷10]	S6-P10	3,6	2,2	10,0	16,8	4.000/100
	S6-P12	3,6	2,2	12,0	19,0	4.000/100
	S6-P14	3,6	2,2	14,0	21,0	3.500/100

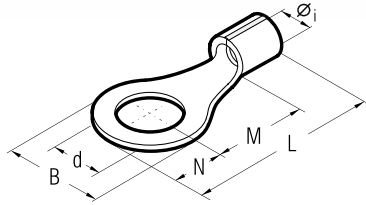
blade terminals



Conductor Size sqmm (AWG)	Type	Dimensions mm				Quantity Box/Bag
		Øi	B	P	L	
0,25÷1,5 [22÷16]	S1.5-PP12	1,8	3,0	12,8	17,0	8.000/100
	S1.5-PP12/1*	1,8	3,0	11,3	15,5	8.000/100
	S1.5-PP12/19	1,8	1,9	13,2	17,4	8.000/100
	S1.5-PP14	1,8	3,0	14,8	19,0	8.000/100
1,5÷2,5 [16÷14]	S2.5-PP12	2,4	3,5	12,8	17,0	7.000/100
	S2.5-PP12/25	2,4	2,5	13,3	17,5	7.000/100
	S2.5-PP16/25	2,4	2,5	17,2	21,4	7.000/100
4÷6 [12÷10]	S6-PP12	3,6	4,0	13,3	19,7	4.000/100
	S6-PP17	3,6	2,9	19,1	25,5	4.000/100

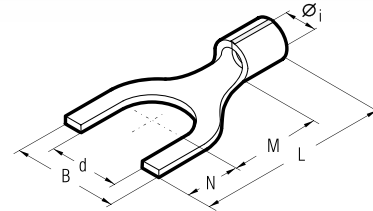
*Made to order

ring terminals



Conductor Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag
			Øi	B	M	N	L	d	
0,25÷1,5 [22÷16]	2	S1.5-M2*	1,8	5,6	4,5	2,8	11,5	2,2	7.000/100
	3	S1.5-M3	1,8	5,6	4,5	2,8	11,5	3,2	7.000/100
	3,5	S1.5-M3.5	1,8	5,6	4,5	2,8	11,5	3,7	7.000/100
	3,5	S1.5-M3.5/1*	1,8	6,2	7,1	3,1	14,4	3,7	7.000/100
	4	S1.5-M4	1,8	7,0	6,5	3,5	14,2	4,3	7.000/100
	4	S1.5-M4/3*	1,8	7,8	7,1	3,9	15,2	4,3	7.000/100
	5	S1.5-M5	1,8	7,8	7,1	3,9	15,2	5,3	7.000/100
	6	S1.5-M6	1,8	9,4	8,1	4,7	17,0	6,4	6.000/100
	6	S1.5-M6/1	1,8	12,0	10,3	6,0	20,5	6,4	5.000/100
	7	S1.5-M7	1,8	9,4	8,1	4,7	17,0	7,2	6.000/100
	8	S1.5-M8	1,8	12,0	10,3	6,0	20,5	8,4	4.000/100
	10	S1.5-M10	1,8	15,5	13,0	7,7	25,0	10,5	3.000/100
12	S1.5-M12	1,8	18,0	15,5	9,0	28,7	13,0	2.000/100	
1,5÷2,5 [16÷14]	3	S2.5-M3	2,4	5,6	5,0	2,8	12,0	3,2	6.000/100
	3,5	S2.5-M3.5	2,4	5,6	5,0	2,8	12,0	3,7	6.000/100
	3,5	S2.5-M3.5/1*	2,4	6,2	6,5	3,1	13,8	3,7	5.000/100
	4	S2.5-M4	2,4	8,0	6,5	4,0	14,7	4,3	5.000/100
	5	S2.5-M5	2,4	8,0	7,5	4,0	15,7	5,3	5.000/100
	6	S2.5-M6	2,4	9,4	8,6	4,7	17,5	6,4	5.000/100
	6	S2.5-M6/1	2,4	12,0	10,3	6,0	20,5	6,4	5.000/100
	7	S2.5-M7	2,4	10,0	7,8	5,0	17,0	7,2	5.000/100
	8	S2.5-M8	2,4	12,0	10,3	6,0	20,5	8,4	4.000/100
	10	S2.5-M10	2,4	15,5	13,0	7,7	25,0	10,5	2.500/100
	12	S2.5-M12	2,4	18,0	15,5	9,0	28,7	13,0	2.000/100
	4÷6 [12÷10]	3	S6-M3	3,6	8,0	8,1	4,0	18,5	3,2
3,5		S6-M3.5	3,6	8,0	8,1	4,0	18,5	3,7	3.000/100
4		S6-M4	3,6	9,0	8,1	4,5	19,0	4,3	3.000/100
5		S6-M5	3,6	9,0	8,1	4,5	19,0	5,3	2.500/100
6		S6-M6	3,6	11,0	11,1	5,5	23,0	6,4	2.500/100
6		S6-M6/1*	3,6	11,0	8,1	5,5	20,0	6,4	2.500/100
7		S6-M7	3,6	11,0	11,1	5,5	23,0	7,2	2.500/100
8		S6-M8	3,6	13,6	12,1	6,8	25,3	8,4	2.000/100
8		S6-M8/1*	3,6	11,0	8,1	5,5	20,0	8,4	2.500/100
10		S6-M10	3,6	13,6	12,1	6,8	25,3	10,5	2.000/100
10		S6-M10/1	3,6	15,5	13,8	7,7	28,0	10,5	2.000/100
12		S6-M12	3,6	19,0	15,1	9,5	31,0	13,0	1.000/100
14	S6-M14	3,6	21,0	16,1	10,5	33,0	15,0	1.000/100	
16	S6-M16	3,6	24,0	17,1	12,0	35,5	17,0	1.000/100	
10 (8)	4	S10-M4	4,8	11,5	9,0	5,8	23,8	4,3	2.000/100
	5	S10-M5	4,8	11,5	9,0	5,8	23,8	5,3	2.000/100
	6	S10-M6	4,8	11,5	9,0	5,8	23,8	6,4	2.000/100
	7	S10-M7	4,8	11,5	9,0	5,8	23,8	7,2	1.500/100

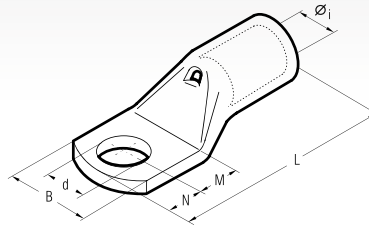
fork/spade terminals



Conductor Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag
			Øi	B	M	N	L	d	
0,25÷1,5 [22÷16]	3	S1.5-U3	1,8	5,5	5,5	4,0	13,7	3,2	7.000/100
	3,5	S1.5-U3.5	1,8	6,0	6,5	3,8	14,5	3,7	7.000/100
	3,5	S1.5-U3.5/2*	1,8	6,4	6,5	3,8	14,5	3,7	7.000/100
	4	S1.5-U4	1,8	6,5	7,5	3,7	15,4	4,3	7.000/100
	4	S1.5-U4/1*	1,8	8,5	7,5	3,7	15,4	4,3	7.000/100
	4	S1.5-U4/2	1,8	7,5	7,5	3,7	15,4	4,3	7.000/100
	5	S1.5-U5	1,8	8,5	7,5	3,7	15,4	5,3	7.000/100
	5	S1.5-U5/1	1,8	9,4	7,5	3,7	15,4	5,3	7.000/100
	6	S1.5-U6	1,8	9,4	8,1	4,7	17,0	6,4	6.000/100
	6	S1.5-U6/1*	1,8	12,0	9,2	7,1	20,5	6,4	6.000/100
	8	S1.5-U8	1,8	14,0	10,0	6,3	20,5	8,4	3.000/100
	10	S1.5-U10	1,8	17,5	13,0	7,7	25,0	10,5	2.500/100
12	S1.5-U12	1,8	20,0	15,5	9,0	28,7	13,0	2.000/100	
1,5÷2,5 [16÷14]	3	S2.5-U3	2,4	5,5	5,5	4,0	13,7	3,2	6.000/100
	3,5	S2.5-U3.5	2,4	6,4	6,5	3,8	14,5	3,7	6.000/100
	3,5	S2.5-U3.5/1*	2,4	7,2	6,5	3,8	14,5	3,7	6.000/100
	4	S2.5-U4	2,4	6,5	7,5	3,7	15,4	4,3	5.000/100
	4	S2.5-U4/1*	2,4	8,5	7,5	3,7	15,4	4,3	6.000/100
	4	S2.5-U4/2*	2,4	7,5	7,5	3,7	15,4	4,3	6.000/100
	5	S2.5-U5	2,4	8,5	7,5	3,7	15,4	5,3	6.000/100
	6	S2.5-U6	2,4	9,4	8,1	4,7	17,0	6,4	5.000/100
	6	S2.5-U6/1*	2,4	12,0	9,2	7,1	20,5	6,4	4.000/100
	8	S2.5-U8	2,4	14,0	10,0	6,3	20,5	8,4	2.500/100
	10	S2.5-U10	2,4	17,5	13,0	7,7	25,0	10,5	2.000/100
	12	S2.5-U12	2,4	20,0	15,5	9,0	28,7	13,0	2.000/100
4÷6 [12÷10]	3,5	S6-U3.5	3,6	7,5	8,5	3,9	18,8	3,7	3.000/100
	4	S6-U4	3,6	7,5	8,0	4,4	18,8	4,3	3.000/100
	5	S6-U5	3,6	9,5	8,0	4,4	18,8	5,3	2.500/100
	6	S6-U6	3,6	10,0	11,0	5,5	22,9	6,4	2.500/100
	8	S6-U8	3,6	13,5	12,0	8,0	26,4	8,4	2.000/100
	10	S6-U10	3,6	15,5	13,0	8,0	27,4	10,5	2.000/100
	10	S6-U10/1*	3,6	17,5	13,8	7,7	28,0	10,5	2.000/100
	12	S6-U12	3,6	21,0	15,1	9,5	31,0	13,0	1.000/100
	14	S6-U14	3,6	23,0	16,1	10,5	33,0	15,0	1.000/100
	16	S6-U16*	3,6	26,0	17,1	11,5	35,0	17,0	1.000/100

*Made to order

for Copper conductors



A-M series lugs are manufactured from electrolytic Copper tube. The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.

Cembre lugs are annealed to guarantee optimum ductility which is an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.

In applications subject to vibration, lugs still have to provide a reliable connection and annealing plays a vital role in avoiding cracking or breaks between the barrel and palm.

The presence of an inspection hole facilitates full insertion of the conductor, whilst the barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.

Lugs are electrolytically tin plated to avoid oxidation. A-M series lugs form an important part of Cembre crimping systems for power carrying conductors, details of the appropriate crimping tools and dies are shown opposite and in detail on pages 206 to 207.

Our technicians are always available to provide any technical advice which may be required.

The enclosed table is only indicative of the range and many variations in stud fixing and palm lengths are also available.

Crimping lugs with two or more holes can be supplied on request.

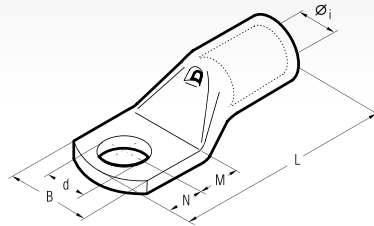
Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools	Hydraulic Tools		
			Øi	B	M	N	L	d					
0,25÷1,5	3	A03-M3*	1,8	6,0	4,5	3,5	16,0	3,2	5.000/100	HN1	B15MDE		
	3,5	A03-M3.5*	1,8	6,5	4,5	3,5	16,0	3,7	5.000/100				
	4	A03-M4*	1,8	6,5	5,0	4,0	17,0	4,3	5.000/100				
	5	A03-M5*	1,8	7,5	5,5	4,5	18,0	5,3	5.000/100				
	6	A03-M6*	1,8	9,0	6,0	5,0	19,0	6,4	5.000/100				
1,5÷2,5	3	A06-M3*	2,4	6,0	4,5	3,5	17,0	3,2	4.000/100	HN1	B15MDE		
	3,5	A06-M3.5*	2,4	6,5	4,5	3,5	17,0	3,7	4.000/100				
	4	A06-M4*	2,4	7,5	5,0	4,0	18,0	4,3	4.000/100				
	5	A06-M5*	2,4	8,5	5,5	4,5	19,0	5,3	4.000/100				
	6	A06-M6*	2,4	9,0	6,0	5,0	20,0	6,4	4.000/100				
4÷6	3	A1-M3	3,6	7,5	4,5	3,5	20,5	3,2	2.000/100	HN1	B15MDE		
	3,5	A1-M3.5	3,6	7,5	4,5	3,5	20,5	3,7	2.000/100				
	4	A1-M4	3,6	8,0	5,0	4,0	21,5	4,3	2.000/100				
	5	A1-M5	3,6	9,0	6,5	6,0	25,0	5,3	2.000/100				
	6	A1-M6	3,6	11,0	7,0	6,0	25,5	6,4	2.000/100				
10	8	A1-M8	3,6	14,0	9,0	8,0	29,5	8,4	1.500/100	HN1	B15MDE		
	10	A1-M10	3,6	16,5	11,0	10,0	33,5	10,5	1.000/100				
	4	A2-M4	4,6	10,0	5,0	4,0	22,5	4,3	1.500/100			HN5	B15MDE
	5	A2-M5	4,6	10,0	6,5	6,0	26,0	5,3	1.500/100				
	6	A2-M6	4,6	11,0	7,0	6,0	26,5	6,4	1.500/100				
8	A2-M8	4,6	15,0	9,0	8,0	30,5	8,4	1.000/100					
10	A2-M10	4,6	18,0	11,0	10,0	34,5	10,5	1.000/100					
16	12	A2-M12	4,6	19,0	14,0	12,0	39,5	13,2	500/100	HN5	B15MDE		
	4	A3-M4	5,8	11,5	5,0	4,0	25,5	4,3	1.000/100			HN-A25	B15MDE
	5	A3-M5	5,8	11,5	6,5	6,0	29,0	5,3	1.000/100				
	6	A3-M6	5,8	11,5	7,0	6,0	29,5	6,4	1.000/100				
	8	A3-M8	5,8	15,0	9,0	8,0	33,5	8,4	500/100				
10	A3-M10	5,8	18,0	11,0	10,0	37,5	10,5	500/100					
25	12	A3-M12	5,8	20,0	14,0	12,0	44,0	13,2	500/100	HN-A25	B15MDE		
	4	A5-M4	7,0	14,0	5,0	4,0	28,0	4,3	1.000/100			TN70SE	B15MDE
	5	A5-M5	7,0	14,0	6,5	6,0	31,5	5,3	500/100				
	6	A5-M6	7,0	14,0	7,0	6,0	32,0	6,4	500/100				
	8	A5-M8	7,0	15,0	9,0	8,0	36,0	8,4	500/100				
10	A5-M10	7,0	18,0	11,0	10,0	40,0	10,5	500/100					
35	12	A5-M12	7,0	21,0	14,0	12,0	45,0	13,2	500/100	TN70SE	B15MDE		
	5	A7-M5	8,9	17,0	6,5	6,0	34,0	5,3	500/100			TN120SE	B15MDE
	6	A7-M6	8,9	17,0	7,0	6,0	34,5	6,4	500/100				
	8	A7-M8	8,9	17,0	9,0	8,0	38,5	8,4	400/100				
	10	A7-M10	8,9	19,0	11,0	10,0	42,5	10,5	400/100				
12	A7-M12	8,9	21,0	14,0	12,0	47,5	13,2	300/50					
50	6	A10-M6	10,0	19,0	8,0	7,0	38,5	6,4	200/50	TN120SE	B15MDE		
	8	A10-M8	10,0	19,0	9,0	8,0	40,5	8,4	200/50				
	10	A10-M10	10,0	20,0	11,5	9,5	44,5	10,5	200/50				
	12	A10-M12	10,0	21,0	12,0	12,0	47,5	13,2	200/50				
	14	A10-M14	10,0	25,0	16,0	14,0	55,5	15,0	200/50				
70	16	A10-M16	10,0	26,0	18,0	16,0	59,5	17,0	200/50	TN120SE	B15MDE		
	6	A14-M6	11,3	21,0	8,0	7,0	44,0	6,4	200/50				
	8	A14-M8	11,3	21,0	9,0	8,0	46,0	8,4	200/50				
	10	A14-M10	11,3	21,0	11,0	10,0	50,0	10,5	200/50				
	12	A14-M12	11,3	22,0	14,0	12,0	55,0	13,2	150/50				
70	14	A14-M14	11,3	25,0	16,0	14,0	59,0	15,0	100/50	TN120SE	B15MDE		
	16	A14-M16	11,3	26,0	18,0	16,0	63,0	17,0	100/50				

*Not UL approved

COPPER TUBE CRIMPING LUGS

for Copper conductors

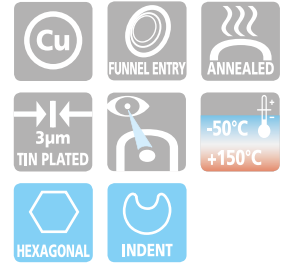
A-M



Conductor Size sqmm		Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools	Hydraulic Tools
Low Str.	Flex*		Øi	B	M	N	L	d			
95	95	6 A19-M6	13,5	25,0	8,0	7,0	50,5	6,4	100/25	TM120SE**	HT45-E B450ND-BVE
		8 A19-M8	13,5	25,0	9,0	8,0	52,5	8,4	100/25		
		10 A19-M10	13,5	25,0	11,0	10,0	56,5	10,5	100/25		
		12 A19-M12	13,5	25,0	14,0	12,0	61,5	13,2	100/25		
		14 A19-M14	13,5	25,0	16,0	14,0	65,5	15,0	100/25		
		16 A19-M16	13,5	27,0	18,0	16,0	69,5	17,0	100/25		
120	120	13,5 A19-M20	13,5	29,5	22,0	20,0	77,5	21,0	50/25		
		8 A24-M8	15,2	28,5	9,0	8,0	54,0	8,4	100/25		
		10 A24-M10	15,2	28,5	11,0	10,0	58,0	10,5	100/25		
		12 A24-M12	15,2	28,5	14,0	12,0	63,0	13,2	100/25		
		14 A24-M14	15,2	28,5	16,0	14,0	67,0	15,0	50/25		
		16 A24-M16	15,2	28,5	18,0	16,0	71,0	17,0	50/25		
150	150	15,2 A24-M20	15,2	30,0	22,0	20,0	79,0	21,0	50/25		
		8 A30-M8	16,7	31,5	13,0	11,0	69,0	8,4	50/25		
		10 A30-M10	16,7	31,5	13,0	11,0	69,0	10,5	50/25		
		12 A30-M12	16,7	31,5	16,0	14,0	75,0	13,2	50/25		
		14 A30-M14	16,7	31,5	18,0	16,0	79,0	15,0	50/25		
		16 A30-M16	16,7	31,5	19,0	17,0	81,0	17,0	50/25		
185	185	16,7 A30-M20	16,7	31,5	22,0	20,0	87,0	21,0	50/25		
		8 A37-M8	19,2	35,5	13,0	11,0	76,0	8,4	50/25		
		10 A37-M10	19,2	35,5	13,0	11,0	76,0	10,5	40/20		
		12 A37-M12	19,2	35,5	16,0	14,0	82,0	13,2	40/20		
		14 A37-M14	19,2	35,5	18,0	16,0	86,0	15,0	30/15		
		16 A37-M16	19,2	35,5	19,0	17,0	88,0	17,0	30/15		
240	240	19,2 A37-M20	19,2	35,5	22,0	20,0	94,0	21,0	30/15		
		8 A48-M8	21,1	39,0	13,0	11,0	77,5	8,4	30/15		
		10 A48-M10	21,1	39,0	13,0	11,0	77,5	10,5	30/15		
		12 A48-M12	21,1	39,0	14,0	12,0	79,5	13,2	30/15		
		14 A48-M14	21,1	39,0	18,0	16,0	92,0	15,0	30/15		
		16 A48-M16	21,1	39,0	19,0	17,0	94,0	17,0	30/15		
300	300	20 A48-M20	21,1	39,0	22,0	20,0	100,0	21,0	30/15		
		10 A60-M10	23,7	44,0	20,0	11,0	96,0	10,5	20/10		
		12 A60-M12	23,7	44,0	20,0	14,0	99,0	13,2	20/10		
		14 A60-M14	23,7	44,0	22,0	16,0	103,0	15,0	20/10		
		16 A60-M16	23,7	44,0	22,0	19,0	106,0	17,0	20/10		
		20 A60-M20	23,7	44,0	24,0	23,0	112,0	21,0	20/10		
400	400	12 A80-M12	27,0	51,0	22,0	19,0	113,0	13,2	20/5		
		14 A80-M14	27,0	51,0	22,0	19,0	113,0	15,0	15/5		
		16 A80-M16	27,0	51,0	22,0	19,0	113,0	17,0	15/5		
		20 A80-M20	27,0	51,0	24,0	23,0	119,0	21,0	15/5		
500	500	16 A100-M16	30,3	56,5	22,0	19,0	117,0	17,0	15/1		
		20 A100-M20	30,3	56,5	24,0	23,0	123,0	21,0	15/1		
630	630	16 A120-M16*	33,4	61,6	22,0	19,0	128,0	17,0	12/1		
		20 A120-M20*	33,4	61,6	24,0	23,0	134,0	21,0	10/1		
800	630	16 A160-M16*	38,0	72,0	24,0	19,0	141,0	17,0	6/1		
		20 A160-M20*	38,0	72,0	24,0	23,0	145,0	21,0	6/1		
1000	800	16 A200-M16*	44,0	80,0	24,0	19,0	158,0	17,0	6/1		
		20 A200-M20*	44,0	80,0	24,0	23,0	162,0	21,0	6/1		

*Actual conductor section may require a larger lug eg for 120mm² size use A30... lug.

**See page 121

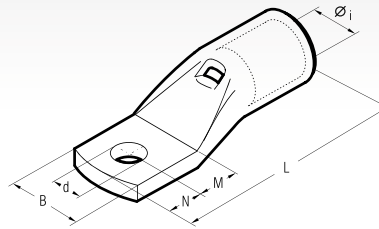


Isolated covers made of PVC for subsequent isolation of the uninsulated connectors, see page 35.



*Not UL approved

for L.V. circuit breakers - for Copper conductors



Cond. Size Flexible sqmm	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools		Hydraulic Tools							
			Øi	B	M	N	L	d		HNS	HN-A25	TN70SE	TN120SE	B15MDE	HT45-E B450ND-BVE	HT51 B550E	RH50 B500E	HT81-U RHU81	ECW-H3D
10	5	A2-M5/9	4,6	9,0	6,5	6,0	26,0	5,3	1.000/100										
16	5	A3-M5/9	5,8	9,0	6,5	6,0	29,0	5,3	1.000/100										
25	5	A5-M5/9	7,0	9,0	6,5	6,0	31,5	5,3	500/100										
35	6	A7B-M6/11.5*	8,9	11,5	8,0	7,0	36,5	6,4	400/100										
50	6	A10B-M6/11.5*	10,0	11,5	8,0	7,0	40,5	6,4	200/50										
70	6	A14B-M6/11.5*	11,3	11,5	8,0	7,0	44,0	6,4	200/50										
95	8	A19B-M8/15.5*	13,5	15,5	9,0	8,0	52,5	8,4	100/25										
120	8	A24B-M8/19*	15,2	19,0	14,0	9,0	60,0	8,4	100/25										
	10	A24B-M10/19*	15,2	19,0	14,0	9,0	60,0	10,5	100/25										
150	8	A30B-M8/19*	16,7	19,0	18,0	9,0	70,0	8,4	50/25										
	10	A30B-M10/19*	16,7	19,0	18,0	9,0	70,0	10,5	50/25										
185	10	A37B-M10/24.5*	19,2	24,5	18,0	9,0	77,0	10,5	50/25										
	12	A48-M10/31	21,1	31,0	13,0	9,0	80,0	10,5	30/15										
240	12	A48-M12/31	21,1	31,0	16,0	12,0	86,0	13,2	30/15										
	16	A48-M16/31	21,1	31,0	19,0	17,0	94,0	17,0	30/15										
300	10	A60B-M10/31	23,7	31,0	16,0	12,0	95,0	10,5	20/10										
	12	A60B-M12/31	23,7	31,0	16,0	12,0	95,0	13,2	20/10										

*Without inspection hole

This range of terminals features contained palm width and has been specifically developed for application on L.V. circuit breakers with reduced space terminal blocks.

The contained palm width allows an immediate and easier installation.

Cembre terminals are manufactured from electrolytic Copper tube.

The specifically designed section of the barrel and the choice of principal dimensions are optimising the best combination of mechanical strength and electrical conductivity.

These terminals are annealed to guarantee optimum ductility and are electrolytically Tin plated to avoid oxidation.

The barrel is provided with an internal taper to ease the introduction of the conductor; furthermore, its length grants a comfortable and correct positioning between dies, during crimping operations. Each palm is marked with the Cembre logo and part number.

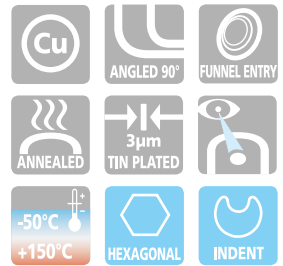
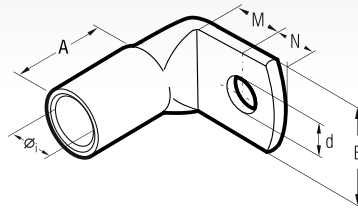
Details of the appropriate crimping tools and dies are shown on pages 206 to 207.



COPPER TUBE CRIMPING LUGS ANGLED 90°

for Copper conductors

A-L



Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools		Hydraulic Tools						
			Øi	B	M	N	A	d										
6	6	A1-L6*	3,6	11,0	7,0	6,0	9,5	6,4	2.000/100	HN1	HN5	TN70SE**	B15MDE	HT45-E B450ND-BVE	HT51 B550E	RH50 B500E B500ND	HT81-U RHU81	HT120 and tools and heads with 130 kN crimping force ECW-H3D RHU520
	5	A2-L5	4,6	10,0	6,5	6,0	10,5	5,3	1.500/100									
10	6	A2-L6	4,6	11,0	7,0	6,0	10,5	6,4	1.500/100	HN1	HN5	TN70SE**	B15MDE	HT45-E B450ND-BVE	HT51 B550E	RH50 B500E B500ND	HT81-U RHU81	HT120 and tools and heads with 130 kN crimping force ECW-H3D RHU520
	8	A2-L8	4,6	15,0	9,0	8,0	10,5	8,4	500/100									
16	5	A3-L5	5,8	11,5	6,5	6,0	11,5	5,3	1.000/100	HN1	HN5	TN70SE**	B15MDE	HT45-E B450ND-BVE	HT51 B550E	RH50 B500E B500ND	HT81-U RHU81	HT120 and tools and heads with 130 kN crimping force ECW-H3D RHU520
	6	A3-L6	5,8	11,5	7,0	6,0	11,5	6,4	1.000/100									
	8	A3-L8	5,8	15,0	9,0	8,0	11,5	8,4	1.000/100									
25	10	A3-L10	5,8	18,0	11,0	10,0	11,5	10,5	500/100	HN1	HN5	TN70SE**	B15MDE	HT45-E B450ND-BVE	HT51 B550E	RH50 B500E B500ND	HT81-U RHU81	HT120 and tools and heads with 130 kN crimping force ECW-H3D RHU520
	6	A5-L6	7,0	14,0	7,0	6,0	13,0	6,4	500/100									
	8	A5-L8	7,0	15,0	9,0	8,0	13,0	8,4	500/100									
35	10	A5-L10	7,0	18,0	11,0	10,0	13,0	10,5	500/100	HN1	HN5	TN70SE**	B15MDE	HT45-E B450ND-BVE	HT51 B550E	RH50 B500E B500ND	HT81-U RHU81	HT120 and tools and heads with 130 kN crimping force ECW-H3D RHU520
	6	A7-L6	8,9	17,0	7,0	6,0	15,5	6,4	500/100									
	8	A7-L8	8,9	17,0	9,0	8,0	15,5	8,4	300/100									
50	10	A7-L10	8,9	19,0	11,0	10,0	15,5	10,5	400/100	HN1	HN5	TN70SE**	B15MDE	HT45-E B450ND-BVE	HT51 B550E	RH50 B500E B500ND	HT81-U RHU81	HT120 and tools and heads with 130 kN crimping force ECW-H3D RHU520
	12	A7-L12	8,9	21,0	14,0	12,0	15,5	13,2	300/100									
	6	A10-L6	10,0	19,0	8,0	7,0	16,5	6,4	300/100									
70	8	A10-L8	10,0	19,0	9,0	8,0	16,5	8,4	300/100	HN1	HN5	TN70SE**	B15MDE	HT45-E B450ND-BVE	HT51 B550E	RH50 B500E B500ND	HT81-U RHU81	HT120 and tools and heads with 130 kN crimping force ECW-H3D RHU520
	10	A10-L10	10,0	20,0	11,5	9,5	16,5	10,5	200/50									
	12	A10-L12	10,0	21,0	12,0	12,0	16,5	13,2	200/50									
95	8	A14-L8	11,3	21,0	9,0	8,0	20,0	8,4	200/50	HN1	HN5	TN70SE**	B15MDE	HT45-E B450ND-BVE	HT51 B550E	RH50 B500E B500ND	HT81-U RHU81	HT120 and tools and heads with 130 kN crimping force ECW-H3D RHU520
	10	A14-L10	11,3	21,0	11,0	10,0	20,0	10,5	200/50									
	12	A14-L12	11,3	22,0	14,0	12,0	20,0	13,2	150/50									
120	16	A14-L16	11,3	26,0	18,0	16,0	20,0	17,0	150/50	HN1	HN5	TN70SE**	B15MDE	HT45-E B450ND-BVE	HT51 B550E	RH50 B500E B500ND	HT81-U RHU81	HT120 and tools and heads with 130 kN crimping force ECW-H3D RHU520
	8	A19-L8	13,5	25,0	9,0	8,0	24,5	8,4	100/25									
	10	A19-L10	13,5	25,0	11,0	10,0	24,5	10,5	100/25									
150	12	A19-L12	13,5	25,0	14,0	12,0	24,5	13,2	100/25	HN1	HN5	TN70SE**	B15MDE	HT45-E B450ND-BVE	HT51 B550E	RH50 B500E B500ND	HT81-U RHU81	HT120 and tools and heads with 130 kN crimping force ECW-H3D RHU520
	10	A24-L10	15,2	28,5	11,0	10,0	25,5	10,5	50/25									
	12	A24-L12	15,2	28,5	14,0	12,0	25,5	13,2	50/25									
185	10	A30-L10	16,7	31,5	13,0	11,0	28,5	10,5	50/25	HN1	HN5	TN70SE**	B15MDE	HT45-E B450ND-BVE	HT51 B550E	RH50 B500E B500ND	HT81-U RHU81	HT120 and tools and heads with 130 kN crimping force ECW-H3D RHU520
	12	A30-L12	16,7	31,5	16,0	14,0	28,5	13,2	50/25									
	10	A37-L10	19,2	31,5	13,0	11,0	31,5	10,5	50/25									
240	12	A37-L12	19,2	31,5	16,0	14,0	31,5	13,2	50/25	HN1	HN5	TN70SE**	B15MDE	HT45-E B450ND-BVE	HT51 B550E	RH50 B500E B500ND	HT81-U RHU81	HT120 and tools and heads with 130 kN crimping force ECW-H3D RHU520
	10	A48-L10	21,1	39,0	13,0	11,0	33,0	10,5	30/15									
	12	A48-L12	21,1	39,0	16,0	14,0	33,0	13,2	30/15									
300	240	A60-L12	23,7	44,0	20,0	14,0	42,0	13,2	20/10	HN1	HN5	TN70SE**	B15MDE	HT45-E B450ND-BVE	HT51 B550E	RH50 B500E B500ND	HT81-U RHU81	HT120 and tools and heads with 130 kN crimping force ECW-H3D RHU520
	300																	

*Actual conductor section may require a larger lug eg for 120mm² size use A30-... lug.

**See page 121

A-L series lugs angled 90° are manufactured from electrolytic Copper tube.

The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.

Cembre lugs are annealed to guarantee optimum ductility which is an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.

In applications subject to vibration, terminals still have to perform a reliable connection, annealing plays a vital role in avoiding cracking or breaks between the barrel and palm.

The presence of an inspection hole facilitates full insertion of the conductor, whilst the barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.

Lugs are electrolytically Tin plated to avoid oxidation.

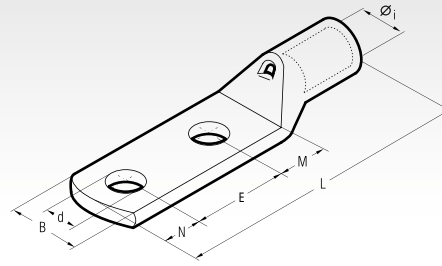
Details of the appropriate crimping tools and dies are shown on pages 206 to 207.

*Not UL approved

A-2M

COPPER TUBE CRIMPING LUGS

double hole fixing for Copper conductors



A-2M.. series lugs are manufactured from electrolytic Copper tube conforming to EN13600.

The tube dimensions are designed to optimise electrical conductivity and mechanical strength.

Palms feature double stud holes at standard 44.5mm centres.

Other configurations are available upon request.

Lugs are annealed to ensure ductility and satisfactory performance when subjected to deformation and vibration.

Inspection holes facilitate verification of full conductor insertion, while the barrel length has been determined to allow easy and accurate positioning of the crimping dies.

Lugs are electrolytically Tin plated to avoid oxidation.

Details of the appropriate crimping tools and dies are shown on pages 206 to 207.

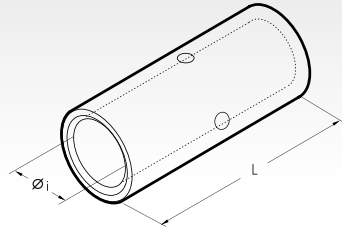
Cond. Size sqmm	Ø Stud mm	Ref.	Dimensions mm							Quantity Box	Mechanical Tools	Hydraulic Tools															
			Øi	B	M	N	E	L	d			HT45-E	HT51	HT 81-U	ECW-H3D												
35	8	A7-2M8*	8,9	21,0	13,0	11,0	44,5	90,0	8,4	100	TN70SE TN120SE*	B450ND-BVE	B550E	RHU 81	RHU 81												
	10	A7-2M10*	8,9	19,0	11,0	10,0	44,5	87,0	10,5	100																	
	12	A7-2M12*	8,9	21,0	16,0	14,0	44,5	96,0	13,2	100																	
50	8	A10-2M8*	10,0	19,0	11,0	11,0	44,5	92,0	8,4	50						TN70SE TN120SE*	B450ND-BVE	B550E	RHU 81								
	10	A10-2M10*	10,0	20,0	13,0	11,0	44,5	94,0	10,5	50																	
	12	A10-2M12	10,0	21,0	16,0	14,0	44,5	100,0	13,2	50																	
70	8	A14-2M8*	11,3	21,0	11,0	11,0	44,5	95,5	8,4	50										TN70SE TN120SE*	B450ND-BVE	B550E	RHU 81				
	10	A14-2M10*	11,3	21,0	13,0	11,0	44,5	97,5	10,5	50																	
	12	A14-2M12*	11,3	22,0	16,0	14,0	44,5	103,5	13,2	50																	
95	14	A14-2M14*	11,3	25,0	18,0	16,0	44,5	107,5	15,0	50														TN70SE TN120SE*	B450ND-BVE	B550E	RHU 81
	10	A19-2M10*	13,5	25,0	13,0	11,0	44,5	104,0	10,5	25																	
	12	A19-2M12*	13,5	25,0	16,0	14,0	44,5	110,0	13,2	25																	
120	14	A19-2M14*	13,5	25,0	18,0	16,0	44,5	114,0	15,0	25	TN70SE TN120SE*	B450ND-BVE	B550E	RHU 81													
	10	A24-2M10	15,2	28,5	13,0	11,0	44,5	105,5	10,5	25																	
	12	A24-2M12*	15,2	28,5	16,0	14,0	44,5	113,0	13,2	25																	
150	14	A24-2M14	15,2	28,5	18,0	16,0	44,5	116,5	15,0	25					TN70SE TN120SE*	B450ND-BVE	B550E	RHU 81									
	16	A24-2M16	15,2	28,5	19,0	17,0	44,5	119,0	17,0	25																	
	10	A30-2M10*	16,7	31,5	13,0	11,0	44,5	113,5	10,5	25																	
185	12	A30-2M12*	16,7	31,5	16,0	14,0	44,5	119,5	13,2	25									TN70SE TN120SE*	B450ND-BVE	B550E	RHU 81					
	14	A30-2M14	16,7	31,5	18,0	16,0	44,5	123,5	15,0	25																	
	16	A30-2M16*	16,7	31,5	19,0	17,0	44,5	125,5	17,0	25																	
240	10	A37-2M10*	19,2	35,5	13,0	11,0	44,5	120,5	10,5	15													TN70SE TN120SE*	B450ND-BVE	B550E	RHU 81	
	12	A37-2M12	19,2	35,5	16,0	14,0	44,5	126,5	13,2	15																	
	14	A37-2M14	19,2	35,5	18,0	16,0	44,5	130,5	15,0	15																	
300	16	A37-2M16*	19,2	35,5	19,0	17,0	44,5	132,5	17,0	15	TN70SE TN120SE*	B450ND-BVE	B550E	RHU 81													
	10	A48-2M10*	21,1	39,0	13,0	11,0	44,5	126,5	10,5	15																	
	12	A48-2M12	21,1	39,0	16,0	14,0	44,5	132,5	13,2	15																	
400	14	A48-2M14	21,1	39,0	18,0	16,0	44,5	136,5	15,0	15					TN70SE TN120SE*	B450ND-BVE	B550E	RHU 81									
	16	A48-2M16*	21,1	39,0	19,0	17,0	44,5	138,5	17,0	15																	
	10	A60-2M10*	23,7	44,0	13,0	11,0	44,5	133,5	10,5	5																	
500	12	A60-2M12	23,7	44,0	20,0	14,0	44,5	143,5	13,2	5									TN70SE TN120SE*	B450ND-BVE	B550E	RHU 81					
	14	A60-2M14	23,7	44,0	22,0	16,0	44,5	147,5	15,0	5																	
	16	A60-2M16	23,7	44,0	22,0	17,0	44,5	148,5	17,0	5																	
630	16	A60-2M16/36*	23,7	36,0	22,0	17,0	44,5	148,5	17,0	5													TN70SE TN120SE*	B450ND-BVE	B550E	RHU 81	
	12	A80-2M12*	27,0	51,0	22,0	14,0	44,5	152,5	13,2	5																	
	14	A80-2M14*	27,0	51,0	22,0	16,0	44,5	154,5	15,0	5																	
800	16	A80-2M16*	27,0	51,0	22,0	19,0	44,5	157,5	17,0	5	TN70SE TN120SE*	B450ND-BVE	B550E	RHU 81													
	16	A80-2M16/41*	27,0	41,0	22,0	19,0	44,5	157,5	17,0	5																	
	12	A100-2M12*	30,3	56,5	17,0	14,0	44,5	151,5	13,2	5																	
	16	A100-2M16*	30,3	56,5	19,0	19,0	44,5	158,5	17,0	5					TN70SE TN120SE*	B450ND-BVE	B550E	RHU 81									
	12	A120-2M12*	33,4	61,6	22,0	14,0	44,5	167,5	13,2	1																	
	16	A120-2M16*	33,4	61,6	22,0	19,0	44,5	172,5	17,0	1																	
	12	A160-2M12*	38,0	72,0	20,0	14,0	44,5	176,5	13,2	1									TN70SE TN120SE*	B450ND-BVE	B550E	RHU 81					
	16	A160-2M16*	38,0	72,0	22,0	19,0	44,5	183,5	17,0	1																	

*See page 121

*Not UL approved

THROUGH CONNECTORS

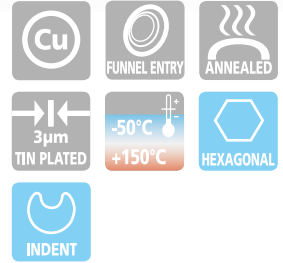
for Copper conductors



Conductor Size sqmm		Type	Dimensions mm		Quantity Box/Bag	Mechanical Tools	Hydraulic Tools
Low Stranded	Flexible		øi	L			
0,25÷1,5	0,25÷1,5	L03-M*	1,8	15	6.000/100		
1,5÷2,5	1,5÷2,5	L06-M*	2,4	15	4.000/100		
4÷6	4÷6	L1-M*	3,6	22	2.000/100	HN1	
10	10	L2-M	4,6	25	1.000/100	HN5	
16	16	L3-M	5,8	27	1.000/100	HN-A25	
25	25	L5-M	7,0	29	500/100	TN70SE	
35	25÷35	L7-M	8,9	33	400/100	TN120 SE*	B15MDE
50	35÷50	L10-M	10,0	37	200/50		HT45-E B450ND-BVE
70	50÷70	L14-M	11,3	39	200/50		HT51 B550E
95	70÷95	L19-M	13,5	43	100/25		RH50 B500E B500NDE
120	95÷120	L24-M	15,2	47	100/25		HT81-U RHU81
150	120÷150	L30-M	16,7	58	50/25		HT120 and tools and heads with 130 kN crimping force
185	150÷185	L37-M	19,2	64	50/25		ECW-H3D
240	185÷240	L48-M	21,1	75	30/15		RHU520
300	240÷300	L60-M	23,7	90	20/10		
400	300÷400	L80-M	27,0	94	15/5		
500	400÷500	L100-M	30,3	98	12/1		
630	500÷630	L120-M*	33,4	105	12/1		
800	600	L160-M*	38,0	112	9/1		
1000	800	L200-M*	44,0	120	6/1		

*See page 121

L-M



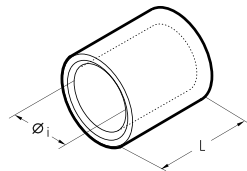
L-M range of connectors are designed for jointing low voltage conductors.

Made of electrolytic Copper tube having the same dimension as A-M series lugs: L-M connectors are annealed and electrolytically Tin plated. They feature an internal taper at both ends to ease the introduction of the conductor and a central stop to ensure correct positioning.

Details of the appropriate crimping tools and dies are shown on pages 206 to 207.

PARALLEL CONNECTORS

for Copper conductors



Total Conductor Size sqmm		Type	Dimensions mm		Quantity Box/Bag	Mechanical Tools	Hydraulic Tools
Low Stranded	Flexible		øi	L			
0,25÷1,5	0,25÷1,5	L03-P	1,8	6,0	10.000/100		
1,5÷2,5	1,5÷2,5	L06-P	2,4	6,0	5.000/100		
4÷6	4÷6	L1-P	3,6	9,0	3.000/100	HN1	
10	10	L2-P	4,6	10,5	3.000/100	HN5	
16	16	L3-P	5,8	11,5	2.000/100	HN-A25	
25	25	L5-P	7,0	13,0	1.500/100	TN70SE	
35	25÷35	L7-P	8,9	14,0	500/100	TN120 SE*	B15MDE
50	35÷50	L10-P	10,0	16,0	500/100		HT45-E B450ND-BVE
70	50÷70	L14-P	11,3	18,0	500/100		HT51 B550E
95	70÷95	L19-P	13,5	19,0	300/50		RH50 B500E B500NDE
120	95÷120	L24-P	15,2	22,0	200/50		HT81-U RHU81
150	120÷150	L30-P	16,7	26,5	100/50		HT120 and tools and heads with 130 kN crimping force
185	150÷185	L37-P	19,2	26,5	100/50		ECW-H3D
240	185÷240	L48-P	21,1	34,0	60/15		RHU520
300	240÷300	L60-P	23,7	43,0	50/25		

*See page 121

L-P

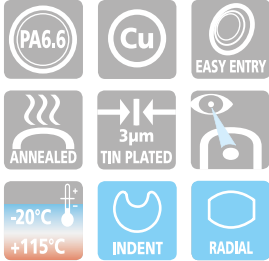
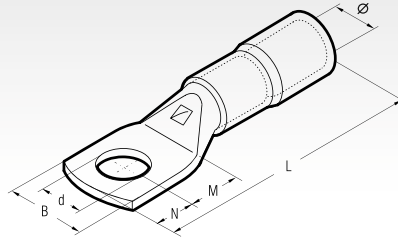


Made of electrolytic Copper tube, having the same dimensions as A-M series lugs, L-P connectors are annealed and electrolytically Tin plated. They feature an internal taper to ease the introduction of the conductor.

Details of the appropriate crimping tools and dies are shown on pages 206 to 207.

*Not UL approved

for Copper conductors



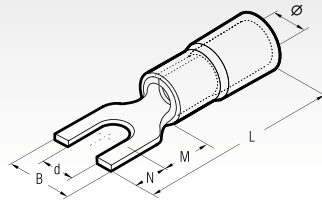
ANE-M series lugs are manufactured from electrolytic Copper tube annealed and Tin plated. The interior of the PA6.6 insulated sleeve is funnel shaped so as to ensure complete and easy introduction of the conductor strands. It also eliminates the need to insulate the terminal using either tape or heat shrinkable tubing. Furthermore the PA6.6 sleeve avoids the possibility of conductor breakage at the barrel entrance. The operating temperature range is - 20 to + 115°C (Surge + 130°C). In order to achieve the best electrical and mechanical performance it is suggested that they are crimped using dies and tools specifically developed for this purpose by Cembre.

Details of the appropriate crimping tools and dies are shown on pages 210 to 211.

Cond. Size Flexible sqmm	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools		Hydraulic Tools	
			Ø	B	M	N	L	d					
10	4	ANE2-M4	8,0	10,0	5,0	4,0	34,1	4,3	500/100	HNN3	HNN4	BT5MDE	
	5	ANE2-M5	8,0	10,0	6,5	6,0	37,6	5,3	500/100				
	6	ANE2-M6	8,0	11,0	7,0	6,0	38,1	6,4	500/100				
	8	ANE2-M8	8,0	15,0	9,0	8,0	42,1	8,4	500/100				
	10	ANE2-M10	8,0	18,0	11,0	10,0	46,1	10,5	500/100				
	12	ANE2-M12	8,0	19,0	14,0	12,0	51,1	13,2	500/100				
16	4	ANE3-M4	9,2	11,5	5,0	4,0	38,6	4,3	500/100	TNN70	TNN120	HT51 RH50 B500E B550E	HT120 and tools and heads with 130 kN crimping force
	5	ANE3-M5	9,2	11,5	6,5	6,0	42,1	5,3	500/100				
	6	ANE3-M6	9,2	11,5	7,0	6,0	42,6	6,4	500/100				
	8	ANE3-M8	9,2	15,0	9,0	8,0	46,6	8,4	500/100				
	10	ANE3-M10	9,2	18,0	11,0	10,0	50,6	10,5	400/100				
	12	ANE3-M12	9,2	20,0	14,0	12,0	55,6	13,2	300/100				
25	4	ANE5-M4	11,1	14,0	5,0	4,0	41,0	4,3	300/100	TNN70	TNN120	HT51 RH50 B500E B550E	HT120 and tools and heads with 130 kN crimping force
	5	ANE5-M5	11,1	14,0	6,5	6,0	44,5	5,3	300/100				
	6	ANE5-M6	11,1	14,0	7,0	6,0	45,0	6,4	300/100				
	8	ANE5-M8	11,1	15,0	9,0	8,0	49,0	8,4	300/100				
	10	ANE5-M10	11,1	18,0	11,0	10,0	53,0	10,5	300/100				
	12	ANE5-M12	11,1	21,0	14,0	12,0	58,0	13,2	250/50				
35	6	ANE7-M6	13,6	17,0	7,0	6,0	50,0	6,4	200/50	TNN70	TNN120	HT51 RH50 B500E B550E	HT120 and tools and heads with 130 kN crimping force
	8	ANE7-M8	13,6	17,0	9,0	8,0	54,0	8,4	200/50				
	10	ANE7-M10	13,6	19,0	11,0	10,0	58,0	10,5	200/50				
	12	ANE7-M12	13,6	21,0	14,0	12,0	63,0	13,2	150/50				
	6	ANE10-M6	13,8	19,0	8,0	7,0	53,0	6,4	200/50				
	8	ANE10-M8	13,8	19,0	9,0	8,0	55,0	8,4	150/50				
50	10	ANE10-M10	13,8	20,0	11,5	9,5	59,0	10,5	150/50	TNN70	TNN120	HT51 RH50 B500E B550E	HT120 and tools and heads with 130 kN crimping force
	12	ANE10-M12	13,8	21,0	12,0	12,0	62,0	13,2	150/50				
	6	ANE14-M6	15,8	21,0	8,0	7,0	61,0	6,4	100/25				
	8	ANE14-M8	15,8	21,0	9,0	8,0	63,0	8,0	100/25				
	10	ANE14-M10	15,8	21,0	11,0	10,0	67,0	10,5	100/25				
	12	ANE14-M12	15,8	22,0	14,0	12,0	72,0	13,2	100/25				
70	14	ANE14-M14	15,8	25,0	16,0	14,0	76,0	15,0	100/25	TNN70	TNN120	HT51 RH50 B500E B550E	HT120 and tools and heads with 130 kN crimping force
	8	ANE19-M8	18,0	25,0	9,0	8,0	73,0	8,4	50/25				
	10	ANE19-M10	18,0	25,0	11,0	10,0	77,0	10,5	50/25				
	12	ANE19-M12	18,0	25,0	14,0	12,0	82,0	13,2	50/25				
	14	ANE19-M14	18,0	25,0	16,0	14,0	86,0	15,0	50/25				
	16	ANE19-M16	18,0	27,0	18,0	16,0	80,0	17,0	50/25				
120	10	ANE24-M10	20,0	28,5	11,0	10,0	77,7	10,5	50/25	TNN70	TNN120	HT51 RH50 B500E B550E	HT120 and tools and heads with 130 kN crimping force
	12	ANE24-M12	20,0	28,5	14,0	12,0	86,5	13,2	50/25				
	14	ANE24-M14	20,0	28,5	16,0	14,0	88,5	15,0	50/25				
	16	ANE24-M16	20,0	28,5	18,0	16,0	90,5	17,0	50/25				
	12	ANE30-M12	23,0	31,5	16,0	14,0	101,0	13,2	30/15				
	14	ANE30-M14	23,0	31,5	18,0	16,0	105,0	15,0	30/15				
150	16	ANE30-M16	23,0	31,5	19,0	17,0	107,0	17,0	30/15	TNN70	TNN120	HT51 RH50 B500E B550E	HT120 and tools and heads with 130 kN crimping force
	20	ANE30-M20	23,0	31,5	22,0	20,0	113,0	21,0	30/15				

POLYAMIDE PA6.6 INSULATED FORK TERMINALS

for Copper conductors



ANE-U



Conductor Size Flexible sqmm	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools	Hydraulic Tools
			Ø	B	M	N	L	d			
10	4	ANE2-U4	8,0	9,8	7,5	7,0	35,1	4,3	500/100	HNN3 HNN4 TNN70 TNN120	B15WDE HT51 RH50 B500E B500NDE B550E HT120 and tools and heads with 130 kN crimping force ECW-H3D
	5	ANE2-U5	8,0	11,5	7,5	7,0	35,1	5,3			
16	4	ANE3-U4	9,2	10,0	10,0	8,0	41,1	4,3	500/100		
	5	ANE3-U5	9,2	11,5	10,0	8,0	41,1	5,3			

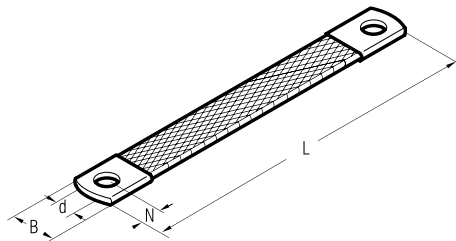


ANE-U series terminals are made from electrolytic Copper, rolled, Tin plated and brazed. The interior of the PA6.6 insulated sleeve is funnel shaped so as to ensure complete and easy introduction of the conductor strands. The operating temperature range is -20 to +115°C (Surge +130°C).

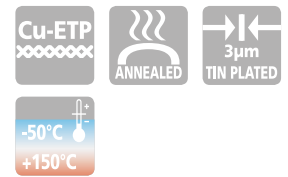
In order to achieve the best electrical and mechanical performance it is suggested that they are crimped using dies and tools specifically developed for this purpose by Cembre. Details of the appropriate crimping tools and dies are shown on pages 210 to 211.

FLEXIBLE BRAIDS

FL



Size sqmm	Ø Stud mm	Type	Dimensions mm				Quantity
			B	N	L	d	
10	8	FL10-150	17	10	150	8,5	50
	8	FL10-200	17	10	200	8,5	50
	8	FL10-250	17	10	250	8,5	50
	8	FL16-150	17	10	150	8,5	50
	8	FL16-200	17	10	200	8,5	50
16	8	FL16-250	17	10	250	8,5	50
	8	FL16-320	17	10	320	8,5	50
	8	FL16-350	17	10	350	8,5	50
	8	FL16-420	17	10	420	8,5	25
	8	FL16-570	17	10	570	8,5	25
25	8	FL16-660	17	10	660	8,5	25
	8	FL25-150	21	10	150	8,5	50
	8	FL25-200	21	10	200	8,5	50
	8	FL25-250	21	10	250	8,5	50
	8	FL25-300	21	10	300	8,5	50



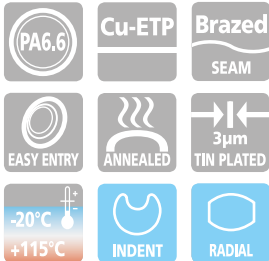
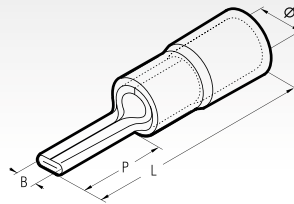
Flexible braids are manufactured from electrolytic Copper wire. Braids of different conductor sizes or lengths are available on request. Standard finish - bright Copper. Flexible braids can be supplied Tin plated, in this case add the suffix "ST" to reference.

E.g.:
- FL 10-150 (Bright Copper)
- FL 10-150-ST (Tin plated)

ANE-P

POLYAMIDE PA6.6 INSULATED PIN TERMINALS

for Copper conductors



Conductor Size Flexible sqmm	Type	Dimensions mm				Quantity Box/Bag	Mechanical Tools				Hydraulic Tools	
		Ø	B	P	L		HNN3	HNN4	TNN70	TNN120	B15MDE	HT120
10	ANE2-P12	8,0	4,3	14,5	35,1	500/100	HNN3	HNN4	TNN70	TNN120	B15MDE	HT120
16	ANE3-P14	9,2	5,5	18,0	41,1	500/100	HNN3	HNN4	TNN70	TNN120	B15MDE	HT120
25	ANE5-P16	11,1	7,0	20,3	45,0	300/100	HNN3	HNN4	TNN70	TNN120	B15MDE	HT120
35	ANE7-P20	13,6	8,0	24,5	55,0	200/50	HNN3	HNN4	TNN70	TNN120	B15MDE	HT120

ANE-P series terminals are made from electrolytic Copper, rolled, Tin plated and brazed. The interior of the PA6.6 insulated sleeve is funnel shaped so as to ensure complete and easy introduction of the conductor strands.

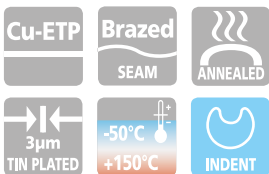
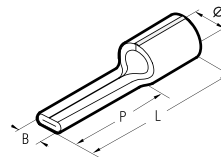
The operating temperature range is – 20 to + 115°C (Surge + 130°C). In order to achieve the best electrical and mechanical performance it is suggested that they are crimped using dies and tools specifically developed for this purpose by Cembre.

Details of the appropriate crimping tools and dies are shown on pages 210 to 211.

A-P

UNINSULATED PIN CONNECTORS

for Copper conductors



Conductor Size sqmm		Type	Dimensions mm				Quantity Box/Bag	Mechanical Tools				Hydraulic Tools			
Low Stranded	Flex		Øi	B	P	L		HN1	HN5	HN-A25	TN70SE	TN120SE	B15MDE	HT45-E	HT51
10	10	A2-P12	4,8	4,3	14,5	23,5	1.000/100	HN1	HN5	HN-A25	TN70SE	TN120SE	B15MDE	HT45-E	HT51
16	16	A3-P14	5,9	5,5	18,0	28,0	1.500/100	HN1	HN5	HN-A25	TN70SE	TN120SE	B15MDE	HT45-E	HT51
25	25	A5-P16	7,0	7,0	20,3	32,0	1.000/100	HN1	HN5	HN-A25	TN70SE	TN120SE	B15MDE	HT45-E	HT51
35	25÷35	A7-P20	8,9	8,0	24,5	39,0	500/100	HN1	HN5	HN-A25	TN70SE	TN120SE	B15MDE	HT45-E	HT51
50	35÷50	A10-P25	10,0	9,5	26,0	45,0	250/50	HN1	HN5	HN-A25	TN70SE	TN120SE	B15MDE	HT45-E	HT51
70	50÷70	A14-P30	11,5	11,0	31,0	55,0	200/50	HN1	HN5	HN-A25	TN70SE	TN120SE	B15MDE	HT45-E	HT51

A-P series pin connectors are designed to terminate conductors into contact blocks. They are manufactured from Copper strip, rolled, brazed and Tin plated.

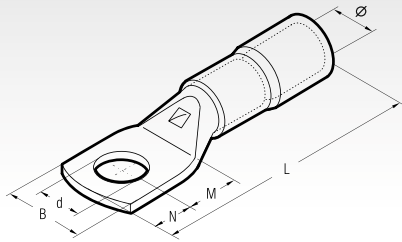
Details of the appropriate crimping tools and dies are shown on pages 206 to 207.

POLYAMIDE PA6.6 INSULATED COPPER TUBE LUGS

ANE-M

for extra flexible Copper conductors

for fine stranded
SPECIAL
flexible conductors



Conductor Size Extra Flexible sqmm	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools	Hydraulic Tools	
			Ø	B	M	N	L	d				
35	6	ANE9-M6/15*	13,6	15,0	8,0	7,0	54,0	6,4	200/50	TNN70	HT51 RH50 B500E B500NDE B550E ECW-H3D HT120 and tools and heads with 130 kN crimping force	
	8	ANE9-M8	13,6	17,0	9,0	8,0	56,0	8,4	200/50			
	10	ANE9-M10	13,6	18,5	11,0	10,0	60,0	10,5	150/50			
	12	ANE9-M12	13,6	21,0	14,0	12,0	65,0	13,2	150/50			
50	6	ANE12-M6/15*	15,7	15,0	8,0	7,0	59,5	6,4	100/25			
	8	ANE12-M8	15,7	19,8	9,0	8,0	61,5	8,4	100/25			
	10	ANE12-M10	15,7	19,8	11,0	10,0	65,5	10,5	100/25			
	12	ANE12-M12	15,7	22,0	14,0	12,0	70,5	13,2	100/25			
70	6	ANE17-M6	17,9	23,0	8,0	7,0	63,8	6,4	100/25			TNN120
	8	ANE17-M8	17,9	23,0	9,0	8,0	65,8	8,4	100/25			
	10	ANE17-M10	17,9	23,0	11,0	10,0	69,8	10,5	50/25			
	12	ANE17-M12	17,9	23,0	14,0	12,0	74,8	13,2	50/25			
	14	ANE17-M14	17,9	25,0	15,5	12,0	76,3	15,0	50/25			
	16	ANE17-M16	17,9	27,0	16,5	13,5	78,8	17,0	50/25			
95	8	ANE20-M8	20,0	27,0	9,0	8,0	70,6	8,4	50/25			
	10	ANE20-M10	20,0	27,0	11,0	10,0	74,6	10,5	50/25			
	12	ANE20-M12	20,0	27,0	14,0	12,0	79,6	13,2	50/25			
	14	ANE20-M14	20,0	27,0	15,5	12,0	81,1	15,0	50/25			
120	16	ANE20-M16	20,0	27,0	16,5	13,5	83,6	17,0	50/25			
	10	ANE29-M10	22,4	30,0	11,0	10,0	81,5	10,5	50/25			
	12	ANE29-M12	22,4	30,0	14,0	12,0	86,5	13,2	50/25			
	14	ANE29-M14	22,4	30,0	15,5	12,0	88,5	15,0	50/25			
150	16	ANE29-M16	22,4	30,0	16,5	13,5	90,5	17,0	50/25			
	20	ANE29-M20	22,4	30,0	22,0	20,0	102,5	21,0	40/20			
	12	ANE35-M12	25,0	34,2	16,0	14,0	95,0	13,2	30/15			
	14	ANE35-M14	25,0	34,2	18,0	16,0	99,0	15,0	30/15			
150	16	ANE35-M16	25,0	34,2	19,0	17,0	101,0	17,0	30/15			
	20	ANE35-M20	25,0	34,2	22,0	20,0	107,0	21,0	30/15			



These lugs are particularly recommended for use with extra flexible conductors on for instance, welding machines.

ANE-M series lugs are manufactured from electrolytic Copper tube annealed and Tin plated.

The interior of the PA6.6 insulated sleeve is funnel shaped so as to ensure complete and easy introduction of the conductor strands.

It also eliminates the need to insulate the terminal using either tape or heat shrinkable tubing.

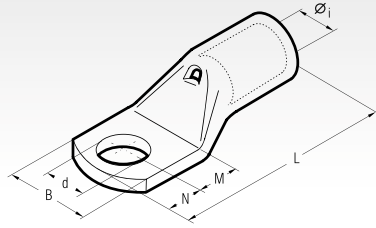
Furthermore the PA6.6 sleeve avoids the possibility of conductor breakage at the barrel entrance.

The operating temperature range is -20 to +115°C (Surge +130°C).

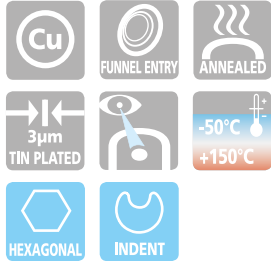
In order to achieve the best electrical and mechanical performance it is suggested that they are crimped using dies and tools specifically developed for this purpose by Cembre.

Details of the appropriate crimping tools and dies are shown on pages 210 to 211.

for extra flexible Copper conductors



for fine stranded
SPECIAL
flexible conductors



These lugs are particularly recommended for use with extra flexible conductors on for instance, welding machines.

A-M series lugs are designed to suit panel applications.

The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.

Cembre lugs are annealed to guarantee optimum ductility and electrolytically Tin plated to avoid oxidation.

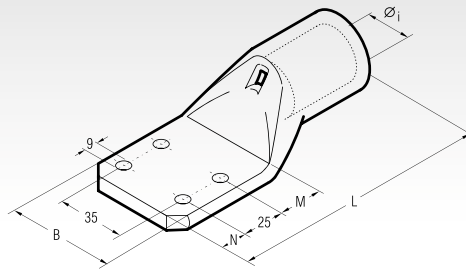
The presence of an inspection hole facilitates full insertion of the conductor.

Details of the appropriate crimping tools and dies are shown on pages 206 to 207.

Conductor Size Extra Flexible sqmm	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools	Hydraulic Tools		
			Øi	B	M	N	L	d					
35	6	A9-M6/15	9,3	15,0	8,0	7,0	38,5	6,4	400/100	TN120SE TN120SE TN120SE TN120SE TN120SE TN120SE TN120SE TN120SE TN120SE TN120SE TN120SE TN120SE TN120SE TN120SE TN120SE TN120SE TN120SE TN120SE	HT45-E B450ND-BVE	HT120 and tools with 130 kN crimping force	RHU520
	8	A9-M8	9,3	17,0	9,0	8,0	40,5	8,4	400/100				
	10	A9-M10	9,3	18,5	11,0	10,0	44,5	10,5	400/100				
50	12	A9-M12	9,3	21,0	14,0	12,0	49,5	13,2	300/50				
	6	A12-M6/15	11,0	15,0	8,0	7,0	40,5	6,4	200/50				
	8	A12-M8	11,0	19,3	9,0	8,0	42,5	8,4	200/50				
70	10	A12-M10	11,0	19,3	11,0	10,0	46,5	10,5	200/50				
	12	A12-M10/19	11,0	19,0	11,0	10,0	46,5	10,5	200/50				
	14	A12-M12	11,0	22,0	14,0	12,0	51,5	13,2	200/50				
95	16	A12-M12	11,0	22,0	14,0	12,0	51,5	13,2	200/50				
	6	A17-M6	13,0	23,0	8,0	7,0	45,0	6,4	200/50				
	8	A17-M8	13,0	23,0	9,0	8,0	47,0	8,4	150/50				
120	10	A17-M10	13,0	23,0	11,0	10,0	51,0	10,5	150/50				
	12	A17-M10/19	13,0	19,0	11,0	10,0	51,0	10,5	200/50				
	14	A17-M12	13,0	23,0	14,0	12,0	56,0	13,2	150/50				
150	16	A17-M12	13,0	23,0	14,0	12,0	56,0	13,2	150/50				
	14	A17-M14	13,0	25,0	15,5	12,0	57,5	15,0	150/25				
	16	A17-M16	13,0	27,0	16,5	13,5	60,0	17,0	150/25				
185	8	A20-M8	15,0	27,0	9,0	8,0	50,0	8,4	100/25				
	10	A20-M10	15,0	27,0	11,0	10,0	54,0	10,5	100/25				
	12	A20-M12	15,0	27,0	14,0	12,0	59,0	13,2	100/25				
207	14	A20-M14	15,0	27,0	15,5	12,0	60,5	15,0	100/25				
	16	A20-M16	15,0	27,0	16,5	13,5	63,0	17,0	100/25				
	8	A29-M8	16,5	30,0	9,0	8,0	53,5	8,4	100/25				
250	10	A29-M10	16,5	30,0	11,0	10,0	57,5	10,5	100/25				
	12	A29-M12	16,5	30,0	14,0	12,0	62,5	13,2	100/25				
	14	A29-M14	16,5	30,0	15,5	12,0	64,0	15,0	100/25				
300	16	A29-M16	16,5	30,0	16,5	13,5	66,5	17,0	100/25				
	20	A29-M20	16,5	30,0	22,0	20,0	78,5	21,0	75/25				
	10	A35-M10	19,2	34,2	13,0	11,0	65,5	10,5	50/25				
350	12	A35-M12	19,2	34,2	16,0	14,0	71,5	13,2	50/25				
	14	A35-M14	19,2	34,2	18,0	16,0	75,5	15,0	50/25				
	16	A35-M16	19,2	34,2	19,0	17,0	77,5	17,0	50/25				
400	20	A35-M20	19,2	34,2	22,0	20,0	83,5	21,0	50/25				
	10	A40-M10	21,0	37,5	13,0	11,0	73,0	10,5	30/15				
	12	A40-M12	21,0	37,5	16,0	14,0	79,0	13,2	30/15				
450	14	A40-M14	21,0	37,5	18,0	16,0	83,0	15,0	30/15				
	16	A40-M16	21,0	37,5	19,0	17,0	85,0	17,0	30/15				
	20	A40-M20	21,0	37,5	22,0	20,0	91,0	21,0	30/15				

COPPER TUBE LUGS 4-ESI FIXING

for Copper conductors



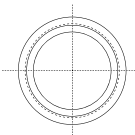
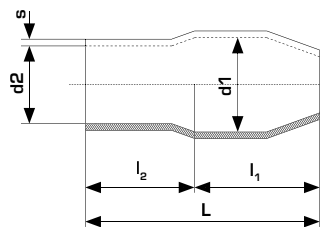
Conductor Size sqmm	Type	Dimensions mm					Quantity Box/Bag	Hydraulic Tools		
		Ø	B	M	N	L		HT51 B550E	RH50 B500E	HT81-U RHU81
185	A 37-4ESI	19,2	61,0	20	15	124	20/10	HT 120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
240	A 48-4ESI	21,1	61,0	20	15	128	20/10			
300	A 60-4ESI	23,7	61,0	20	15	133	15/5			
400	A 80-4ESI	27,0	61,0	20	15	134	15/5			
500	A 100-4ESI	30,3	61,0	20	15	139	10/5			
630	A 120-4ESI	33,4	61,6	20	15	144	10/5			
800	A 160-4ESI	38,0	61,0	20	15	158	8/1			



A-4ESI series lugs are made from high purity electrolytic Copper tube, annealed and Tin plated. The four hole stud fixing in accordance with E.A. specifications ensures compatibility with most transformer fixing arrangements. Details of the appropriate crimping tools and dies are shown on pages 206 to 207.

INSULATED COVERS

For uninsulated connectors



Type	Connectors A-M*	d1 Ø	d2 Ø	l1 ±1	l2 ±1	L ±2	s ±0.2	Quantity	Minimum Order Qty
ES03-..	A03	3.3	3.1	7.0	8.0	15.0	0.6	100	3,000
ES06-..	A06	4.5	3.7	8.0	8.0	16.0	0.7	100	
ES1-..	A1	5.7	4.1	9.0	9.0	18.0	0.8	100	
ES2-..	A2	7.2	6.2	11.0	10.0	21.0	1.0	100	1,000
ES3-..	A3	10.0	8.0	15.0	13.0	28.0	1.1	100	
ES5-..	A5	12.0	9.5	15.0	14.0	29.0	1.2	100	
ES10-..	A7, A9, A10	14.0	11.8	17.0	17.0	34.0	1.4	100	500
ES14-..	A12, A14	17.0	13.9	22.0	20.0	42.0	1.5	100	
ES19-..	A17, A19	19.0	16.0	25.0	21.0	46.0	1.5	50	
ES24-..	A20, A24	22.0	18.0	31.0	24.0	55.0	1.7	50	200
ES30-..	A29, A30	24.0	20.0	32.0	28.0	60.0	1.8	50	
ES37-..	A35, A37	26.0	22.0	34.0	31.0	65.0	1.8	50	
ES40-..	A40	32.2	24.0	38.0	31.0	69.0	2.0	50	100
ES48-..	A48	36.5	27.2	42.0	33.0	75.0	2.0	50	
ES80-..	A60, A80	36.7	30.0	42.0	33.0	75.0	2.0	25	

Add the suffix corresponding to the selected colour to the reference:

-BU blue, -GY grey, -BR brown, -BK black, -RE red, -YE yellow,

ES



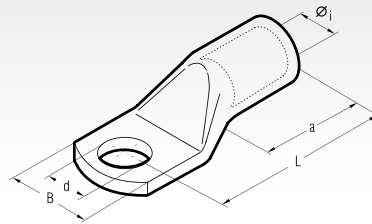
Insulated covers in PVC for general use with Cembre A-M copper tube lugs characterised by environmental tolerance, flexibility, not inflammability & stable performance. Widely used for the insulation and protection of connections and electrical terminations.

General features:

- Material: PVC
- Self extinguishing (UL94): V0
- Working temperature: 85 °C
- Colours: red, yellow, blue, black, grey, brown.

* See A-M type copper tube lugs on pages 24-25, 34
** Depending on the diameter of the insulated cable

for Copper conductors



DR series lugs are manufactured from electrolytic Copper tube and designed to obtain high electrical conductivity combined with the mechanical strength required to resist vibration and pull out.

Cembre lugs are annealed and Tin plated for improved surface protection.

The annealing process optimises the structural features of the material allowing easier crimping and greater resistance to mechanical stresses. Dimensions are according to DIN 46235.

The barrel entrance of the lug is chamfered to allow easy conductor insertion, while its length facilitates precise positioning in the crimping die.

Each lug is marked with:

- Cembre logo and part code.
- conductor type and csa (mm²).
- stud Ø (mm).
- crimping die code

Details of the appropriate crimping tools and dies are shown on page 217.

Consult us for special requirements

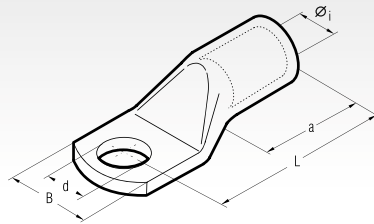
Conductor Size sqmm	Ø Stud mm	Type	Code	Dimensions mm					Quantity Box/Bag	Mechanical Tools	Hydraulic Tools				
				Øi	d	L	B	a							
6	5	DR6-5	5	3,8	5,3	24,0	8,5	10,0	800/100	HN-D25	B15MDE				
	6	DR6-6	5	3,8	6,4	24,0	9,0	10,0	800/100						
	8	DR6-8*	5	3,8	8,4	26,0	13,0	10,0	800/100						
10	5	DR10-5	6	4,5	5,3	27,5	10,0	10,0	800/100	TND 6-70	B15MDE				
	6	DR10-6	6	4,5	6,4	27,0	10,0	10,0	800/100						
	8	DR10-8*	6	4,5	8,4	28,0	13,0	10,0	800/100						
16	10	DR10-10*	6	4,5	10,5	28,5	15,0	10,0	800/100	TND 10-120	B15MDE				
	5	DR16-5*	8	5,5	5,3	36,0	13,0	20,0	400/100						
	6	DR16-6	8	5,5	6,4	36,0	13,0	20,0	400/100						
25	8	DR16-8	8	5,5	8,4	37,0	13,0	20,0	400/100	TND 10-120	B15MDE				
	10	DR16-10	8	5,5	10,5	40,0	17,0	20,0	400/100						
	12	DR16-12*	8	5,5	13,0	41,0	19,0	20,0	400/100						
35	6	DR25-6	10	7,0	6,4	39,0	14,6	20,0	400/100	TND 10-120	B15MDE				
	8	DR25-8	10	7,0	8,4	39,5	16,0	20,0	400/100						
	10	DR25-10	10	7,0	10,5	40,0	17,0	20,0	200/100						
50	12	DR25-12	10	7,0	13,0	40,5	19,0	20,0	200/100	TND 10-120	B15MDE				
	6	DR35-6*	12	8,2	6,4	42,5	17,5	20,0	200/100						
	8	DR35-8	12	8,2	8,4	42,0	17,0	20,0	200/100						
70	10	DR35-10	12	8,2	10,5	43,0	19,0	20,0	200/100	TND 10-120	B15MDE				
	12	DR35-12	12	8,2	13,0	43,0	21,0	20,0	200/100						
	16	DR35-16*	12	8,2	17,0	44,0	28,0	20,0	200/100						
95	6	DR50-6*	14	10,0	6,4	52,0	20,0	28,0	100/25	TND 10-120	B15MDE				
	8	DR50-8	14	10,0	8,4	52,0	20,0	28,0	100/25						
	10	DR50-10	14	10,0	10,5	53,0	22,0	28,0	100/25						
120	12	DR50-12	14	10,0	13,0	53,0	24,0	28,0	100/25	TND 10-120	B15MDE				
	16	DR50-16	14	10,0	17,0	57,0	28,0	28,0	100/25						
	8	DR70-8	16	11,5	8,4	56,0	24,0	28,0	50/25						
150	10	DR70-10	16	11,5	10,5	56,0	24,0	28,0	50/25	TND 10-120	B15MDE				
	12	DR70-12	16	11,5	13,0	56,0	24,0	28,0	50/25						
	16	DR70-16	16	11,5	17,0	60,0	30,0	28,0	50/25						
185	20	DR70-20*	16	11,5	21,0	84,5	30,0	28,0	50/25	TND 10-120	B15MDE				
	8	DR95-8*	18	13,5	8,4	65,0	28,0	35,0	50/25						
	10	DR95-10	18	13,5	10,5	66,0	28,0	35,0	50/25						
240	12	DR95-12	18	13,5	13,0	66,0	28,0	35,0	50/25	TND 10-120	B15MDE				
	16	DR95-16	18	13,5	17,0	65,5	32,0	35,0	50/25						
	20	DR95-20*	18	13,5	21,0	71,0	33,0	35,0	50/25						
280	8	DR120-8*	20	15,5	8,4	70,0	31,0	35,0	50/25	TND 10-120	B15MDE				
	10	DR120-10	20	15,5	10,5	70,0	32,0	35,0	50/25						
	12	DR120-12	20	15,5	13,0	70,5	32,0	35,0	50/25						
350	16	DR120-16	20	15,5	17,0	70,0	32,0	35,0	50/25	TND 10-120	B15MDE				
	20	DR120-20	20	15,5	21,0	72,0	36,0	35,0	50/25						
	10	DR150-10	22	17,0	10,5	79,0	34,0	35,0	50/25						
450	12	DR150-12	22	17,0	13,0	78,5	34,0	35,0	50/25	TND 10-120	B15MDE				
	16	DR150-16	22	17,0	17,0	78,0	34,0	35,0	50/25						
	20	DR150-20	22	17,0	21,0	78,0	40,0	35,0	50/25						
560	10	DR185-10	25	19,0	10,5	83,0	37,0	40,0	25/25	TND 10-120	B15MDE				
	12	DR185-12	25	19,0	13,0	82,5	37,0	40,0	25/25						
	16	DR185-16	25	19,0	17,0	82,0	37,0	40,0	25/25						
700	20	DR185-20	25	19,0	21,0	83,0	40,0	40,0	25/25	TND 10-120	B15MDE				
	10	DR240-10*	28	21,5	10,5	92,0	42,0	40,0	20/10						
	12	DR240-12	28	21,5	13,0	92,0	42,5	40,0	20/10						
850	16	DR240-16	28	21,5	17,0	92,0	42,5	40,0	20/10	TND 10-120	B15MDE				
	20	DR240-20	28	21,5	21,0	92,0	45,0	40,0	20/10						

* Dimensions of the tube according to DIN 46235; Stud hole not included within the standard.

COPPER TUBE CRIMPING LUGS ACCORDING TO DIN 46235

for Copper conductors

DR



Conductor Size sqmm	Ø Stud mm	Type	Code	Dimensions mm					Quantity Box/Bag	Hydraulic Tools		
				Øi	d	L	B	a				
300	12	DR300-12*	32	24,5	13,0	104,0	47,0	50,0	10/5	RH50 B500E B500NDE B550E	HT120 and tools and heads with 130 kN crimping force	ECW-H3D RHU520
	16	DR300-16	32	24,5	17,0	100,0	48,0	50,0	10/5			
	20	DR300-20	32	24,5	21,0	100,0	47,0	50,0	10/5			
400	12	DR400-12*	38	27,5	13,0	117,0	55,0	70,0	5/5			
	16	DR400-16	38	27,5	17,0	117,0	55,0	70,0	5/5			
	20	DR400-20	38	27,5	21,0	117,0	55,0	70,0	5/5			
500	12	DR500-12*	42	31,0	13,0	130,0	60,0	70,0	5/5			
	16	DR500-16*	42	31,0	17,0	130,0	60,0	70,0	5/5			
	20	DR500-20	42	31,0	21,0	130,0	60,0	70,0	5/5			
625	20	DR625-20	44	34,5	21,0	135,0	63,0	80,0	5/5			
800	20	DR800-20	52	40,0	21,0	166,0	75,0	100,0	5/5			
1.000	20	DR1000-20	58	44,0	21,0	166,0	85,0	100,0	5/5			

* Dimensions of the tube according to DIN 46235; Stud hole not included within the standard.

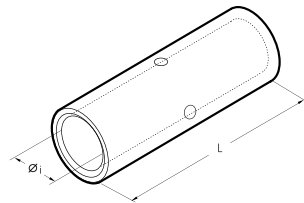


Consult us for special requirements

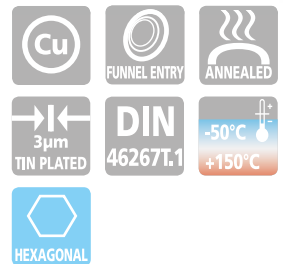
CRIMPING THROUGH CONNECTORS ACCORDING TO DIN 46267 T.1

for Copper conductors

DSV



Conductor Size sqmm	Type	Code	Dimensions mm		Quantity Box/Bag	Mechanical Tools		Hydraulic Tools							
			Øi	L											
6	DSV6	5	3,7	30	1.200/100	HN-D25	TND6-70	B15MDE	HT45-E	B450ND-BVE	HT51	RH50 B500E B500NDE B550E	HT81-U RHU81	HT120 and tools and heads with 130 kN crimping force	ECW-H3D RHU520
10	DSV10	6	4,4	30	1.200/100										
16	DSV16	8	5,5	50	400/100										
25	DSV25	10	7,0	50	200/100										
35	DSV35	12	8,2	50	200/100										
50	DSV50	14	10,0	56	200/50										
70	DSV70	16	11,5	56	100/50										
95	DSV95	18	13,5	70	100/50										
120	DSV120	20	15,5	70	50/25										
150	DSV150	22	17,0	80	50/25										
185	DSV185	25	19,0	85	25/25										
240	DSV240	28	21,5	90	15/15										
300	DSV300	32	24,5	100	10/5										
400	DSV400	38	27,5	150	10/5										
500	DSV500	42	31,0	160	5/5										
625	DSV625	44	34,5	160	5/5										
800	DSV800	52	40,0	200	5/5										
1.000	DSV1000	58	44,0	200	5/5										



DSV series through connectors are manufactured from electrolytic Copper tube, annealed and surface protected by Tin plating. Internal and external dimensions match those of DR series lugs. Chamfered ends and a central stop provide easy and correct insertion of the conductor. Details of the appropriate crimping tools and dies are shown on page 217.

Consult us for special requirements