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MO-72102	59	SEPT 12	27	VSM 10-V 400-630	84	YR150A...C	23
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MO-72155	59	SICGEL 30 CP	96	VSM 20-V 95-240	84	YR240A...C	23
MO-72172	59	SICGEL 50 CP	96	VSM 20-V 240-400	84	YR300A...C	23
MO-72200	59	SICGEL 100 CP	96	VSM 20-V 400-630	84	YR016C...C	24
MP-42/11	55	SL 15 J	38	VSM 30-V 25-95	84	YR025C...C	24
MP-42/66	55	SL 60 B	38	VSM 30-V 95-240	84	YR035C...C	24
MP-100/05-5	55	SL 70 B	38	VSM 30-V 240-400	84	YR050C...C	24
MP-4266	55	SL 125-1	39	VSM 30-V 400-630	84	YR070C...C	24
MS-124	56	SL 125-2	39	VSM-Ü-G 10-V 25-95	85	YR095C...C	24
MS-130/1	48	SL 125-3	39	VSM-Ü-G 10-V 70-240	85	YR120C...C	24
MT06-25 TN	98	SL 125-4	39	VSM-Ü-H 20-V 25-95	86	YR150C...C	24
MT10-70 TN	98	SLC 310	38	VSM-Ü-H 20-V 70-240	86	YR185C...C	24
MT16-35 TN	98	SLC 420	38	VSM-Ü-H 30-V 25-95	86	YR240C...C	24
MT-814/2	50	SLC 500	38	VSM-Ü-H 30-V 70-240	86	YR300C...C	24
MT-814/3	50	SLC 600	38	VSM-Ü-3PB 10-V 25-95	87	YR400C...C	24
MT-815-C	50	Splitter pot	43	VSM-Ü-3PB 10-V 70-240	87	YR500C...C	24
MT-817-C	50	SPM 2-001	27	VSM-Ü-3PB 20-V 25-95	87	YR625C...C	24
MT-830-P	55	SPM 2-005	27	VSM-Ü-3PB 20-V 70-240	87	YR800C...C	24
MT-840/1	50	SPM 3-090	27	VSM-Ü-3PB 30-V 25-95	87	YR1000C...C	24
MT-890	49	SPM 5-090	27	VSM-Ü-3PB 30-V 70-240	87	ZJPCFU-25	109
MT-891	49	STC 125	26	YCA06M..TN	17		
MT-893	49	SPT 36-220	27	YCA010M..TN	17		
MT-895	49	SPT 20-585	27	YCA016M..TN	17		
MT-1910	49	SRU 130	26	YCA025M..TN	17		
MT-1911	49	SU 130	26	YCA035M..TN	17		
MT-1911-E	49	Subsea repair joint	43	YCA050M..TN	17		
MT-1920	49	TFT-16/17	109	YCA070M..TN	17		
MT-1921	49	TO-3-16/19	109	YCA095M..TN	17		
MT-1921-E	49	TP-1610-R	110	YCA120M..TN	18		
MT-2951	49	TP-1615-R	110	YCA150M..TN	18		
MT-3951	49	TR-119-10	111	YCA185M..TN	18		
MT-5805	50	TR-119-15	111	YCA240M..TN	18		
MT-8408	50	TRI-1610	111	YCA300M..TN	18		
MT-8601	54	TRI-1615	111	YCA400M..TN	18		
MT-8602	54	TS-1601	109	YCA500M..TN	18		
MT-8612	54	TS-1901	109	YCA630M..TN	18		
MT-8614	54	TV-1610	110	YCS06TN	19		
MT-9801	50	TV-1615	110	YCS010TN	19		
MV-137-35	58	TZ-116-10	111	YCS016TN	19		
MV-137-37	58	TZ-116-15	111	YCS025TN	19		

Connection material

Fixing accessories



SICAME

MECATRACTION

HÖHNE



Connection material

Fixing accessories

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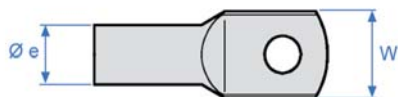
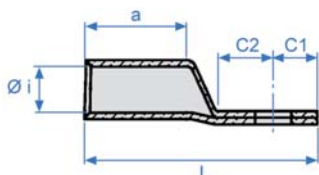


Copper tubular lugs

DE ... SV series

General features.

- Electrolytic copper (EN 13600).
- Electrolytic plating process.
- Funnel entry.
- **Performance** : Heat resistant up to + 125°C.



Standard

DIN-EN 61238-1

6 to 70 mm²

Conductor size (mm ²)	Item code	Ref.	Stud size	Dimensions (mm)							Type of die
				W	Ø i	Ø e	a	C1	C2	L	
6	7 360 200	DE 6-4 SV	M 4	10							... R 6 ... 6 DGE1T
	7 360 215	DE 6-5 SV	M 5	10				6.5	6.5	26	
	7 360 230	DE 6-6 SV	M 6	12	3.5	6.5	9	9.5	9.5	32	
	7 360 245	DE 6-8 SV	M 8	15				11.5	11.5	36	
	7 360 260	DE 6-10 SV	M 10	17				13	13	39	
10	7 360 275	DE 6-12 SV	M 12	18.5							... R 10 ... 10 DGE1T
	7 360 315	DE 10-5 SV	M 5	12				6.5	6.5	28	
	7 360 330	DE 10-6 SV	M 6	12				9.5	9.5	34	
	7 360 345	DE 10-8 SV	M 8	15	4.5	7	10	11.5	11.5	38	
	7 360 360	DE 10-10 SV	M 10	17				13	13	41	
16	7 360 375	DE 10-12 SV	M 12	19							... R 16 ... 16 DGE1T
	7 360 415	DE 16-5 SV	M 5	12				6.5	6.5	29	
	7 360 430	DE 16-6 SV	M 6	12				6.5	6.5	31	
	7 360 445	DE 16-8 SV	M 8	15	5.5	8.5	13	9.5	9.5	37	
	7 360 460	DE 16-10 SV	M 10	17				11.5	11.5	41	
25	7 360 475	DE 16-12 SV	M 12	19				13	13	44	... R 25 ... 25 DGE1T
	7 360 510	DE 25-5 SV	M 5	14				7	7	34.5	
	7 360 525	DE 25-6 SV	M 6	14				9.5	9.5	39.5	
	7 360 540	DE 25-8 SV	M 8	16	7	10	15	11.5	11.5	43.5	
	7 360 555	DE 25-10 SV	M 10	18				13	13	46.5	
35	7 360 570	DE 25-12 SV	M 12	19				14	14	48	... R 35 ... 35 DGE1T
	7 360 585	DE 25-14 SV	M 14	21							
	7 360 610	DE 35-6 SV	M 6	17				7	7	37.5	
	7 360 625	DE 35-8 SV	M 8	17				9.5	9.5	42.5	
	7 360 640	DE 35-10 SV	M 10	19	8.5	12	17	11.5	11.5	46.5	
50	7 360 655	DE 35-12 SV	M 12	21				13	13	49.5	... R 50 ... 50 DGE1T
	7 360 670	DE 35-14 SV	M 14	21				14	14	51.5	
	7 360 685	DE 35-16 SV	M 16	25				15.5	15.5	54.5	
	7 360 710	DE 50-6 SV	M 6	17				9.5	9.5	46	
	7 360 725	DE 50-8 SV	M 8	20				11.5	11.5	50	
70	7 360 740	DE 50-10 SV	M 10	20				13	13	53	... R 70 ... 70 DGE1T
	7 360 755	DE 50-12 SV	M 12	23	10	14	19	14	14	55	
	7 360 770	DE 50-14 SV	M 14	27				15.5	15.5	58	
	7 360 785	DE 50-16 SV	M 16	27				19	19	65	
	7 360 800	DE 50-20 SV	M 20	30							
70	7 360 850	DE 70-6 SV	M 6					10	10	50	... R 70 ... 70 DGE1T
	7 360 865	DE 70-8 SV	M 8					11.5	11.5	53	
	7 360 880	DE 70-10 SV	M 10	24				13	13	56	
	7 360 895	DE 70-12 SV	M 12		12	16.5	21	14	14	58	
	7 360 910	DE 70-14 SV	M 14					15.5	15.5	61	
	7 360 950	DE 70-16 SV	M 16	28				19	19	68	
	7 360 965	DE 70-20 SV	M 20	30							



Copper tubular lugs

DE ... SV series

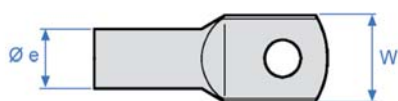
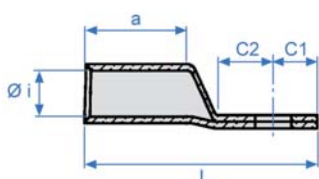
General features.


- Electrolytic copper (EN 13600).
- Electrolytic plating process.
- Funnel entry.
- **Performance** : Heat resistant up to + 125°C.

Standard

DIN-EN 61238-1

95 to 400 mm²



Conductor size (mm ²)	Item code	Ref.	Stud size	Dimensions (mm)							Type of die 
				W	Ø i	Ø e	a	C1	C2	L	
95	7 361 000	DE 95-8 SV	M 8	26	13.5	18	25	11.5	11.5	59	... R 95 ... 95 DGE1T
	7 361 015	DE 95-10 SV	M 10					13	13	62	
	7 361 030	DE 95-12 SV	M 12					14	14	64	
	7 361 045	DE 95-14 SV	M 14					15.5	15.5	67	
	7 361 060	DE 95-16 SV	M 16					21	21	78	
	7 361 075	DE 95-20 SV	M 20					21	21	78	
120	7 361 105	DE 120-8 SV	M 8	28	15	19.5	30	13	13	63	... R 120 ... 120 DGE1T
	7 361 120	DE 120-10 SV	M 10					14	14	65	
	7 361 135	DE 120-12 SV	M 12					15.5	15.5	68	
	7 361 150	DE 120-14 SV	M 14					21	21	79	
	7 361 165	DE 120-16 SV	M 16					21	21	79	
	7 361 180	DE 120-20 SV	M 20					21	21	79	
150	7 361 205	DE 150-8 SV	M 8	31	16.5	21	30	13	13	68	... R 150 ... 150 DGE1T
	7 361 220	DE 150-10 SV	M 10					14	14	70	
	7 361 235	DE 150-12 SV	M 12					15.5	15.5	73	
	7 361 250	DE 150-14 SV	M 14					21	21	84	
	7 361 265	DE 150-16 SV	M 16					21	21	84	
	7 361 280	DE 150-20 SV	M 20					21	21	84	
185	7 361 315	DE 185-10 SV	M 10	35	19	24	30	17	17	80	... R 185 ... 185 DGE1T
	7 361 330	DE 185-12 SV	M 12					17	17	80	
	7 361 345	DE 185-14 SV	M 14					21	21	88	
	7 361 360	DE 185-16 SV	M 16					21	21	88	
	7 361 380	DE 185-20 SV	M 20					21	21	88	
	7 361 415	DE 240-10 SV	M 10					17	17	87	
240	7 361 430	DE 240-12 SV	M 12	39	21	26	35	17	17	87	... R 240 ... 240 DGE1T
	7 361 445	DE 240-14 SV	M 14					21	21	95	
	7 361 460	DE 240-16 SV	M 16					21	21	95	
	7 361 480	DE 240-20 SV	M 20					21	21	95	
300	7 361 530	DE 300-12 SV	M 12	43	23.5	29.5	44	17	17	97	... R 300 ... 300 DGE1T
	7 361 545	DE 300-14 SV	M 14					17	17	97	
	7 361 560	DE 300-16 SV	M 16					21	21	107	
	7 361 580	DE 300-20 SV	M 20					21	21	107	
400	7 361 630	DE 400-12 SV	M 12	49	27	34	44	23	23	112	... R 400 .. 400 DGE1T
	7 361 645	DE 400-14 SV	M 14					23	23	112	
	7 361 660	DE 400-16 SV	M 16					23	23	112	
	7 361 680	DE 400-20 SV	M 20					23	23	112	



YCA..TN series

General features.

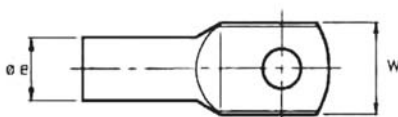
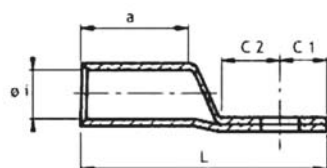
- Electrolytic copper (EN 13600)
- Electrolytic tin-plating process
- Funnel entry
- For not tin plated lugs delet "TN" to part number (eg. YCA095M12)

Copper tubular lugs

Compliant with

DIN-46235

6 bis 95 mm²



Conductor size (mm ²)	Item code	Reference	Pack.	Stud size (mm)	Dimensions (mm)							Type of die
					W	Ø i	Ø e	C1	C2	a	L	
6	7 362 001	YCA06M5TN	100	5	8.5	3.8	5.5	8	8	10	32	... K5
	7 362 011	YCA06M6TN	100	6	8.5	3.8	5.5	8	8	10	32	
	7 362 021	YCA06M8TN	100	8*	13	3.8	5.5	11	9	10	32	
10	7 362 031	YCA010M5TN	100	5	9	4.5	6	8	8	10	35	... K6
	7 362 041	YCA010M6TN	100	6	9	4.5	6	8	8	10	35	
	7 362 051	YCA010M8TN	100	8*	13	4.5	6	10	10	10	39	
16	7 362 061	YCA016M6TN	100	6	13	5.5	8.5	10	10	20	46	... K8
	7 362 071	YCA016M8TN	100	8	13	5.5	8.5	10	10	20	46	
	7 362 081	YCA016M10TN	100	10	17	5.5	8.5	13	13	20	49	
	7 362 091	YCA016M12TN	100	12*	18	5.5	8.5	12	12	20	48	
25	7 362 101	YCA025M6TN	100	6	14	7	10	10	10	20	48	... K10
	7 362 111	YCA025M8TN	100	8	16	7	10	10	10	20	48	
	7 362 121	YCA025M10TN	100	10	17	7	10	13	13	20	51	
	7 362 131	YCA025M12TN	100	12	19	7	10	13	13	20	51	
35	7 362 141	YCA035M6TN	100	6*	17	8.2	12.5	13	13	20	55	... K12
	7 362 151	YCA035M8TN	100	8	17	8.2	12.5	13	13	20	55	
	7 362 161	YCA035M10TN	100	10	19	8.2	12.5	13	13	20	55	
	7 362 171	YCA035M12TN	100	12	21	8.2	12.5	13	13	20	55	
	7 362 181	YCA035M14TN	100	14*	21	8.2	12.5	13	13	20	55	
50	7 362 191	YCA050M8TN	100	8	20	10	14.5	12	12	28	64	... K14
	7 362 201	YCA050M10TN	100	10	22	10	14.5	12	12	28	64	
	7 362 211	YCA050M12TN	100	12	24	10	14.5	16	16	28	64	
	7 362 221	YCA050M14TN	100	14*	24	10	14.5	16	16	28	68	
	7 362 231	YCA050M16TN	100	16	28	10	14.5	16	16	28	68	
70	7 362 241	YCA070M8TN	100	8	24	11.5	16.5	12	12	28	67	... K16
	7 362 251	YCA070M10TN	100	10	24	11.5	16.5	12	12	28	67	
	7 362 261	YCA070M12TN	100	12	24	11.5	16.5	16	16	28	71	
	7 362 271	YCA070M14TN	100	14*	24	11.5	16.5	16	16	28	71	
	7 362 281	YCA070M16TN	100	16	30	11.5	16.5	16	16	28	71	
95	7 362 291	YCA095M8TN	50	8*	28	13.5	19	14	13	35	79	... K18
	7 362 301	YCA095M10TN	50	10	28	13.5	19	14	13	35	79	
	7 362 311	YCA095M12TN	50	12	28	13.5	19	14	13	35	79	
	7 362 321	YCA095M14TN	50	14*	28	13.5	19	16	16	35	81	
	7 362 331	YCA095M16TN	50	16	32	13.5	19	16	16	35	81	
	7 362 333	YCA095M20TN	50	20*	34	13.5	19	16	16	35	81	

* Additional product similarly DIN 46235. Further cross sections on request.

90° and/or 45° bent report: Article number additive "90" and/or "45".



YCA..TN series

General features.

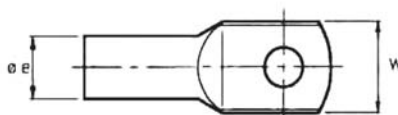
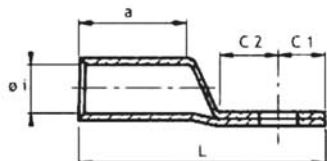
- Electrolytic copper (EN 13600)
- Electrolytic tin-plating process
- Funnel entry
- For not tin plated lugs delet "TN" to part number (eg. YCA120M12).

Copper tubular lugs

Compliant with

DIN-46235

120 bis 630 mm²



Conductor size (mm ²)	Item code	Reference	Pack.	Stud size (mm)	Dimensions (mm)							Type of die
					W	Ø i	Ø e	C1	C2	a	L	
120	7 362 341	YCA120M10TN	50	10	32	15.5	21	13	13	35	83	... K20
	7 362 351	YCA120M12TN	50	12	32	15.5	21	14	13	35	84	
	7 362 361	YCA120M14TN	50	14*	32	15.5	21	14	13	35	84	
	7 362 371	YCA120M16TN	50	16	32	15.5	21	17	16	35	90	
	7 362 381	YCA120M20TN	50	20	38	15.5	21	20	20	35	97	
150	7 362 391	YCA150M10TN	50	10	34	17	23.5	13	13	35	91	... K22
	7 362 401	YCA150M12TN	50	12	34	17	23.5	14	13	35	92	
	7 362 411	YCA150M14TN	50	14*	34	17	23.5	14	13	35	92	
	7 362 421	YCA150M16TN	50	16	34	17	23.5	17	16	35	98	
	7 362 431	YCA150M20TN	50	20	40	17	23.5	20	20	35	105	
185	7 362 441	YCA185M10TN	50	10	37	19	25.5	13	13	40	95	... K25
	7 362 451	YCA185M12TN	50	12	37	19	25.5	14	13	40	96	
	7 362 461	YCA185M14TN	50	14*	37	19	25.5	14	13	40	96	
	7 362 471	YCA185M16TN	50	16	37	19	25.5	17	16	40	102	
	7 362 481	YCA185M20TN	50	20	40	19	25.5	20	20	40	109	
240	7 362 491	YCA240M12TN	50	12	42	21.5	29	14	23	40	106	... K28
	7 362 501	YCA240M14TN	50	14*	42	21.5	29	14	23	40	106	
	7 362 511	YCA240M16TN	50	16	42	21.5	29	17	23	40	109	
	7 362 521	YCA240M20TN	50	20	45	21.5	29	20	23	40	112	
300	7 362 531	YCA300M14TN	25	14*	48	24.5	32	17	20	50	117	... K32
	7 362 541	YCA300M16TN	25	16	48	24.5	32	17	20	50	117	
	7 362 551	YCA300M20TN	25	20	48	24.5	32	20	20	50	120	
400	7 362 561	YCA400M14TN	25	14*	55	27.5	38.5	22	20	70	137	... K38
	7 362 571	YCA400M16TN	25	16	55	27.5	38.5	22	20	70	137	
	7 362 581	YCA400M20TN	25	20	55	27.5	38.5	22	20	70	137	
500	7 362 591	YCA500M16TN	25	16*	60	31	42	22	20	70	147	... K42
	7 362 601	YCA500M20TN	25	20	60	31	42	22	20	70	147	
625 / 630	7 362 611	YCA630M16TN	10	16*	60	34.5	44	22	20	80	157	... K44
	7 362 621	YCA630M20TN	10	20	60	34.5	44	22	20	80	157	

* Additional product similarly **DIN 46235**. Further cross sections on request.

90° and/or 45° bent report: Article number additive "90" and/or "45".



Copper tubular lugs bent at 90°

DE ... SV 90 E series

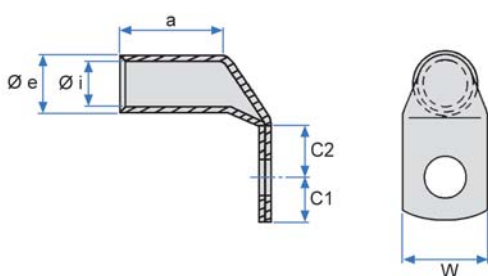
General features.

- Electrolytic copper (EN 13600).
- Electrolytic plating process.
- Funnel entry.
- **Performance** : Heat resistant up to + 125°C.

Standard

DIN-EN 61238-1

6 to 35 mm²



Conductor size (mm ²)	Item code	Ref.	Stud size	Dimensions (mm)						Type of die
				Ø i	Ø e	a	W	C1	C2	
6	7 360 225	DE 6-5 SV 90 E	M 5	3.5	6.5	10	10	7.5	7.5	... R 6 ... 6 DGE1T
	7 360 240	DE 6-6 SV 90 E	M 6				12			
	7 360 255	DE 6-8 SV 90 E	M 8				15			
	7 360 270	DE 6-10 SV 90 E	M 10				17			
	7 360 285	DE 6-12 SV 90 E	M 12				19			
10	7 360 325	DE 10-5 SV 90 E	M 5	4.5	7	10	12	6.5	7.5	... R 10 ... 10 DGE1T
	7 360 340	DE 10-6 SV 90 E	M 6				15			
	7 360 355	DE 10-8 SV 90 E	M 8				17			
	7 360 370	DE 10-10 SV 90 E	M 10				19			
	7 360 385	DE 10-12 SV 90 E	M 12				19			
16	7 360 425	DE 16-5 SV 90 E	M 5	5.5	8.5	13	12	5.5	6.5	... R 16 ... 16 DGE1T
	7 360 440	DE 16-6 SV 90 E	M 6				15			
	7 360 455	DE 16-8 SV 90 E	M 8				17			
	7 360 470	DE 16-10 SV 90 E	M 10				19			
	7 360 485	DE 16-12 SV 90 E	M 12				19			
25	7 360 520	DE 25-5 SV 90 E	M 5	7	10	15	14	7.5	7.5	... R 25 ... 25 DGE1T
	7 360 535	DE 25-6 SV 90 E	M 6				16			
	7 360 550	DE 25-8 SV 90 E	M 8				18			
	7 360 565	DE 25-10 SV 90 E	M 10				19			
	7 360 580	DE 25-12 SV 90 E	M 12				21			
35	7 360 590	DE 25-14 SV 90 E	M 14	8.5	12	17	21	14.5	14.5	... R 35 ... 35 DGE1T
	7 360 612	DE 35-6 SV 90 E	M 6				17			
	7 360 635	DE 35-8 SV 90 E	M 8				19			
	7 360 650	DE 35-10 SV 90 E	M 10				21			
	7 360 667	DE 35-12 SV 90 E	M 12				21			
	7 360 680	DE 35-14 SV 90 E	M 14				21			
	7 360 695	DE 35-16 SV 90 E	M 16				26			



Copper tubular lugs bent at 90°

DE ... SV 90 E series

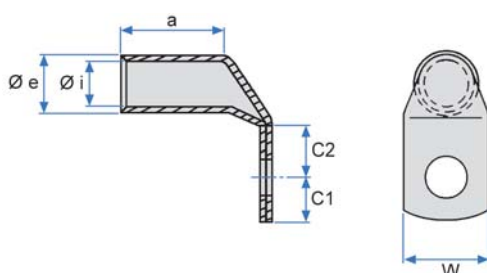
General features.


- Electrolytic copper (EN 13600).
- Electrolytic plating process.
- Funnel entry.
- **Performance** : Heat resistant up to + 125°C.

Standard

DIN-EN 61238-1

50 to 120 mm²



Conductor size (mm ²)	Item code	Ref.	Stud size	Dimensions (mm)						Type of die 
				Ø i	Ø e	a	W	C1	C2	
50	7 360 720	DE 50--6 SV 90 E	M 6	10	14	19	20	10	10	... R 50 ... 50 DGE1T
	7 360 735	DE 50-8 SV 90 E	M 8					12	12	
	7 360 750	DE 50-10 SV 90 E	M 10					13	13	
	7 360 765	DE 50-12 SV 90 E	M 12				23	14.5	14.5	
	7 360 780	DE 50-14 SV 90 E	M 14					16	16	
	7 360 795	DE 50-16 SV 90 E	M 16					19	19	
70	7 360 810	DE 50-20 SV 90 E	M 20	12	16.5	21	24	10	10	... R 70 ... 70 DGE1T
	7 360 860	DE 70-6 SV 90 E	M 6					12	12	
	7 360 875	DE 70-8 SV 90 E	M 8					13	13	
	7 360 890	DE 70-10 SV 90 E	M 10					14.5	14.5	
	7 360 905	DE 70-12 SV 90 E	M 12				28	16	16	
	7 360 920	DE 70-14 SV 90 E	M 14					19	19	
95	7 360 960	DE 70-16 SV 90 E	M 16	13.5	18	25	26	12	14	... R 95 ... 95 DGE1T
	7 360 975	DE 70-20 SV 90 E	M 20					13	18	
	7 361 010	DE 95-8 SV 90 E	M 8					14.5	20	
	7 361 025	DE 95-10 SV 90 E	M 10				28	16	22	
	7 361 040	DE 95-12 SV 90 E	M 12					22	14	
	7 361 055	DE 95-14 SV 90 E	M 14					16	17	
120	7 361 070	DE 95-16 SV 90 E	M 16	15	19.5	26	28	14	17	... R 120 ... 120 DGE1T
	7 361 085	DE 95-20 SV 90 E	M 20					15	20	
	7 361 115	DE 120-8 SV 90 E	M 8					16	22	
	7 361 130	DE 120-10 SV 90 E	M 10				30	16	22	
	7 361 145	DE 120-12 SV 90 E	M 12					22	24	
	7 361 160	DE 120-14 SV 90 E	M 14					22	24	
	7 361 175	DE 120-16 SV 90 E	M 16							
	7 361 190	DE 120-20 SV 90 E	M 20							



Copper tubular lugs bent at 45°

DE ... SV 45 E series

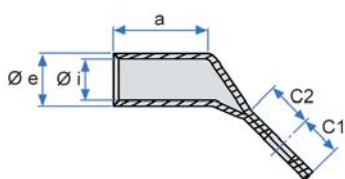
General features.

- Electrolytic copper (EN 13600).
- Electrolytic plating process.
- Funnel entry.

Standard

DIN-EN 61238-1

6 to 35 mm²



Conductor size (mm ²)	Item code	Ref.	Stud size	Dimensions (mm)						Type of die
				Ø i	Ø e	a	W	C1	C2	
6	7 360 277	DE 6-5 SV 45 E	M 5	3.5	6.5	9	10	7.5	7.5	... R 6 ... 6 DGE1T
	7 360 242	DE 6-6 SV 45 E	M 6				12			
	7 360 257	DE 6-8 SV 45 E	M 8				15			
	7 360 272	DE 6-10 SV 45 E	M 10				17			
	7 360 287	DE 6-12 SV 45 E	M 12				19			
10	7 360 327	DE 10-5 SV 45 E	M 5	4.5	7	10	12	6.5	7.5	... R 10 ... 10 DGE1T
	7 360 342	DE 10-6 SV 45 E	M 6				15			
	7 360 357	DE 10-8 SV 45 E	M 8				17			
	7 360 372	DE 10-10 SV 45 E	M 10				19			
	7 360 387	DE 10-12 SV 45 E	M 12				19			
16	7 360 427	DE 16-5 SV 45 E	M 5	5.5	8.5	13	12	5.5	6.5	... R 16 ... 25 DGE1T
	7 360 442	DE 16-6 SV 45 E	M 6				15			
	7 360 457	DE 16-8 SV 45 E	M 8				17			
	7 360 468	DE 16-10 SV 45 E	M 10				19			
	7 360 487	DE 16-12 SV 45 E	M 12				19			
25	7 360 522	DE 25-5 SV 45 E	M 5	7	10	15	14	7.5	7.5	... R 25 ... 25 DGE1T
	7 360 533	DE 25-6 SV 45 E	M 6				16			
	7 360 552	DE 25-8 SV 45 E	M 8				18			
	7 360 567	DE 25-10 SV 45 E	M 10				19			
	7 360 582	DE 25-12 SV 45 E	M 12				21			
35	7 360 592	DE 25-14 SV 45 E	M 14	8.5	12	17	21	14.5	14.5	... R 35 ... 35 DGE1T
	7 360 622	DE 35-6 SV 45 E	M 6				17			
	7 360 637	DE 35-8 SV 45 E	M 8				19			
	7 360 652	DE 35-10 SV 45 E	M 10				21			
	7 360 669	DE 35-12 SV 45 E	M 12				21			
	7 360 682	DE 35-14 SV 45 E	M 14					14.5	14.5	
	7 360 697	DE 35-16 SV 45 E	M 16				26	16	16	



Copper but connectors

DEM ... series

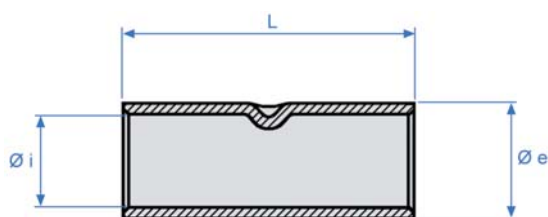
General features.


- Electrolytic copper (EN 13600).
- Electrolytic plating process.
- Funnel entry.

Standard

DIN-EN 61238-1

6 to 400 mm²



Conductor size (mm ²)	Item code	Ref.	Dimensions (mm)			Type of die 
			Ø i	Ø e	L	
6	7 435 061	DEM 6	3.5	6.5	25	... R 6 / ... 6 DGE1T
10	7 435 071	DEM 10	4.5	7	30	... R 10 / ... 10 DGE1T
16	7 435 081	DEM 16	5.5	8.5	35	... R 16 / ... 16 DGE1T
25	7 435 091	DEM 25	7	10	40	... R 25 / ... 25 DGE1T
35	7 435 101	DEM 35	8.5	12	45	... R 35 / ... 35 DGE1T
50	7 435 111	DEM 50	10	14	50	... R 50 / ... 50 DGE1T
70	7 435 121	DEM 70	12	16.5	55	... R 70 / ... 70 DGE1T
95	7 435 131	DEM 95	13.5	18	60	... R 95 / ... 95 DGE1T
120	7 435 141	DEM 120	15	19.5	65	... R 120 / ... 120 DGE1T
150	7 435 151	DEM 150	16.5	21	70	... R 150 / ... 150 DGE1T
185	7 435 161	DEM 185	19	24	75	... R 185 / ... 185 DGE1T
240	7 435 171	DEM 240	21	26	85	... R 240 / ... 240 DGE1T
300	7 435 181	DEM 300	23.5	29.5	100	... R 300 / ... 300 DGE1T
400	7 435 191	DEM 400	27	34	100	... R 400 / ... 400 DGE1T



Non insulated copper splices

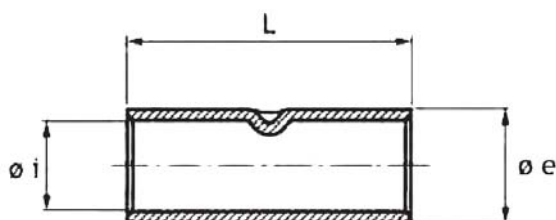
YCS..TN series


General features.

- Electrolytic copper (EN 13600)
- Electrolytic tin plating process
- Funnel entry
- For not tin plated splice delet "TN" to part number (eg.YCS35)

Compliant with

DIN-46267/T1



Conductor size (mm ²)	Item code	Reference	Packaging	Dimensions (mm)			Type of die 
				Ø i	Ø e	L	
6	7435231	YCS06TN	100	3.8	5.5	30.0	...K5
10	7435241	YCS010TN	100	4.5	6	30.0	...K6
16	7435251	YCS016TN	100	5.5	8.5	50.0	...K8
25	7435261	YCS025TN	100	7.0	10	50.0	...K10
35	7435271	YCS035TN	100	8.2	12.5	50.0	...K12
50	7435281	YCS050TN	100	10.0	14.5	56.0	...K14
70	7435291	YCS070TN	100	11.5	16.5	56.0	...K16
95	7435301	YCS095TN	100	13.5	19	70.0	...K18
120	7435311	YCS120TN	100	15.5	21	70.0	...K20
150	7435321	YCS150TN	100	17.0	23.5	80.0	...K22
185	7435331	YCS185TN	100	19.0	25.5	85.0	...K25
240	7435341	YCS240TN	100	21.5	29	90.0	...K28
300	7435351	YCS300TN	100	24.5	32	100.0	...K32
400	7435361	YCS400TN	100	27.5	38.5	150.0	...K38
500	7435371	YCS500TN	100	31.0	42	160.0	...K42
625 / 630	7435381	YCS630TN	100	34.5	44	160.0	...K44

Further cross sections on request.



Deep crimp type Aluminium end lugs

C . A ... series

Deep crimp type Aluminium end lugs for connection of aluminium cables on aluminium terminal pads.

- Aluminium covered inside with neutral grease for better electrical contact.

- To be installed by deep crimping.

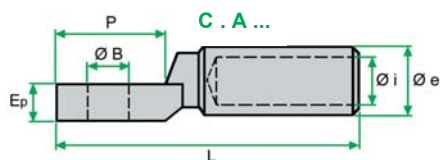
- C.A .. - V .. A** "Lug + Screw AZ5 GU" composed of :

- 1 lug **C . A ...**
- 1 screw,
- 2 washers,
- 1 nut,
- 1 counter nut.

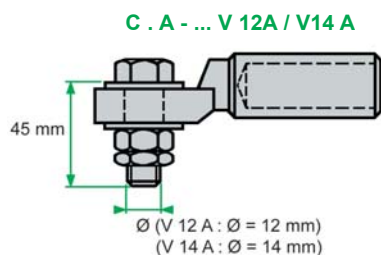
Standard

NF C 33-090-1 (12-95)

16 to 240 mm²



C1A 95



Ref.	Area (mm ²)	Ø i (mm)	Ø e (mm)	P (mm)	Ø B (mm)	L (mm)	Ep (mm)	Die	Punch
Lug only									
C0A 16	16	5.5	16	33 x 32	13	90	6.8	MC 0E	0E
C0A 25	25	6.5							
C0A 35	35	8							
C1A 50	50	9	20	33 x 32	16	101	6.8	MC 1E	1E
C1A 70	70	11							
C1A 95	95	12.5							
C2A 120	120	13.7	25	37 x 37	16	121	10	MC 2E	2E
C2A 150	150	15.5							
C4A 185	185	17							
C4A 240	240	19.5	32	39 x 39	16	121	12	MC 4E	4E
Lug + Screws									
C0A 25 - V12A	25	6.5	16	33 x 32	13	90	6.8	MC 0E	0E
C0A 35 - V12A	35	8							
C1A 50 - V14A	50	9							
C1A 70 - V14A	70	11	20	33 x 32	16	101	6.8	MC 1E	1E
C1A 95 - V14A	95	12.5							
C2A 120 - V14A	120	13.7							
C2A 150 - V14A	150	15.5	25	37 x 37	16	121	10	MC 2E	2E
C4A 185 - V14A	185	17							
C4A 240 - V14A	240	19.5	32	39 x 39	16	121	12	MC 4E	4E

Areas > 240 mm² : on request.



Deep crimp type Aluminium-Copper end lugs

C . AU ... series

ECAU ... series

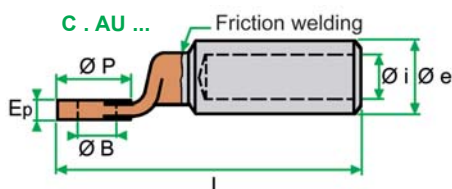
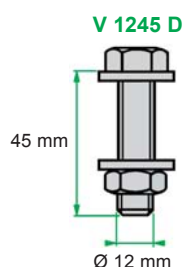
Deep crimp type Aluminium-Copper end lugs for connection of aluminium cables on copper terminal pads.

- Aluminium covered inside with neutral grease for a better electrical contact.
- To be installed by deep crimping.
- ECAU ...** : Packaging in sets of lugs **C . AU** for LV / MV cables with heat shrink sleeves (3 blacks L1, L2, L3 and a blue N), with or without bolts.

Standard

NF C 33-090-1 (12-95)

16 to 240 mm²



Ref.	Area (mm ²)	Ø i (mm)	Ø e (mm)	Ø P (mm)	Ø B (mm)	L (mm)	Ep (mm)	Die	Punch
C0AU 16	16	5.5	16	20	10.5	79	4.5	MC 0E	0E
C0AU 25	25	6.5	16	20	10.5	79	4.5	MC 0E	0E
C0AU 35	35	8	16	25	12.8	86	5	MC 0E	0E
C1AU 50	50	9	20	25	12.8	86	5	MC 1E	1E
C1AU 70	70	11	20	25	12.8	86	5	MC 1E	1E
C1AU 95	95	12.5	20	25	12.8	86	5	MC 1E	1E
C2AU 120	120	13.7	25	30	12.8	110	6	MC 2E	2E
C2AU 150	150	15.5	25	30	12.8	110	6	MC 2E	2E
C4AU 185	185	17	32	30	12.8	110	6	MC 4E	4E
C4AU 240	240	19.5	32	30	12.8	110	6	MC 4E	4E

Packaging in sets.

Ref.	Area (mm ²)	Composition
Set without screws		
ECAU 95-50 FRM	3 x 95 + 50	3 C1AU 95 + 1 C1AU 50
ECAU 95-70 FRM	3 x 95 + 70	3 C1AU 95 + 1 C1AU 70
ECAU 150-70 FRM	3 x 150 + 70	3 C2AU 150 + 1 C1AU 70
ECAU 150-95 FRM	3 x 150 + 95	3 C2AU 150 + 1 C1AU 95
ECAU 240-95 FRM	3 x 240 + 95	3 C4AU 240 + 1 C1AU 95
ECAU 240-120 FRM	3 x 240 + 120	3 C4AU 240 + 1 C2AU 120
Sets with screws		
ECAU 95-50 FRMVD	3 x 95 + 50	3 C1AU 95 + 1 C1AU 50
ECAU 95-70 FRMVD	3 x 95 + 70	3 C1AU 95 + 1 C1AU 70
ECAU 150-70 FRMVD	3 x 150 + 70	3 C2AU 150 + 1 C1AU 70
ECAU 150-95 FRMVD	3 x 150 + 95	3 C2AU 150 + 1 C1AU 95
ECAU 240-95 FRMVD	3 x 240 + 95	3 C4AU 240 + 1 C1AU 95
ECAU 240-120 FRMVD	3 x 240 + 120	3 C4AU 240 + 1 C2AU 120

+ 1 thermo. kit

+ 1 thermo. kit
+ V1245 D

Areas > 240 mm² : On request.



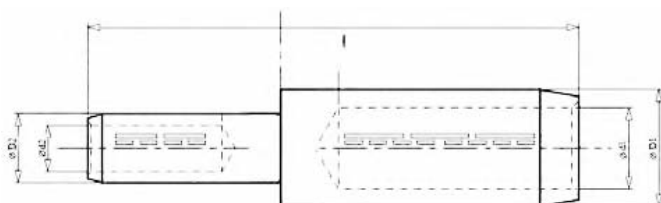
YR...A...C series

General features.

- Material: Al 99.5%, Cu 99.9%.
- Prefilled with neutral grease and capped.

Bimetallic reducer Al-Cu

Compliant with
DIN 46329 and DIN 46235



Section (mm²)	Packaging / 10 units		Dimensions (mm)				I	Mechanical	Tooling							
	Item code	Reference	Al		Cu				Hydraulic							
			Ø d1	Ø D1	Ø d2	Ø D2			Y500CT, EDW570, EMW670CM				HC120 / Y35 / EU1370*			
									Al	N° Crimp	Cu	N° Crimp	Al	N° Crimp	Cu	N° Crimp
25	7586505	YR025A010C	6.8	12.0	4.5	5.9	58.0	W12DKT	4	W06DKT	1	UDK12BGE2T	2	UDK06BGE2T	2-2	
	7586510	YR025A016C								W08DKT	UDK08BGE2T					
	7586515	YR025A025C								W10DKT	UDK10BGE2T					
	7586520	YR025A035C								W12DKT	UDK12BGE2T					
35	7586525	YR035A016C	8.0	14.0	5.5	8.4	75.0	MD50D MD6*	W14DKT	W08DKT	UDK14BGE2T	UDK08BGE2T				
	7586530	YR035A025C								W10DKT		UDK10BGE2T				
	7586535	YR035A035C								W12DKT		UDK12BGE2T				
	7586540	YR035A050C								W14DKT		UDK14BGE2T				
50	7586545	YR050A016C	9.8	16.0	5.5	8.4	75.0	W16DKT	5	W08DKT	UDK16BGE2T	UDK08BGE2T				
	7586550	YR050A025C								W10DKT		UDK10BGE2T				
	7586555	YR050A035C								W12DKT		UDK12BGE2T				
	7586560	YR050A050C								W14DKT		UDK14BGE2T				
70	7586565	YR070A016C	11.2	18.5	5.5	8.4	85.0	MD6*	W18DKT	W08DKT	UDK18BGE2T	UDK08BGE2T				
	7586570	YR070A025C										W10DKT	UDK10BGE2T			
	7586575	YR070A035C										W12DKT	UDK12BGE2T			
	7586580	YR070A050C										W14DKT	UDK14BGE2T			
	7586585	YR070A070C								W16DKT	UDK16BGE2T					
	7586590	YR070A095C								W18DKT	UDK18BGE2T					
	7586595	YR070A120C								W20DKT	UDK20BGE2T					
	7586600	YR095A016C								W08DKT	UDK08BGE2T					
95	7586605	YR095A025C	13.2	22.0	7.0	9.9	91.0	W22DKT	W10DKT	UDK22BGE2T	UDK10BGE2T					
	7586610	YR095A035C									W12DKT	UDK12BGE2T				
	7586615	YR095A050C									W14DKT	UDK14BGE2T				
	7586620	YR095A070C									W16DKT	UDK16BGE2T				
	7586625	YR095A095C							W18DKT	UDK18BGE2T						
	7586630	YR095A120C							W20DKT	UDK20BGE2T						
	7586635	YR120A016C							W08DKT	UDK08BGE2T						
	7586640	YR120A025C							W10DKT	UDK10BGE2T						
120	7586645	YR120A035C	14.7	23.0	8.2	12.4	100.0	W22DKT	6	W12DKT	UDK22BGE1T	UDK12BGE2T				
	7586650	YR120A050C								W14DKT		UDK14BGE2T				
	7586655	YR120A070C								W16DKT		UDK16BGE2T				
	7586660	YR120A095C							W18DKT	UDK18BGE2T						
	7586665	YR120A120C							W20DKT	UDK20BGE2T						

* EU1370 to be used with U137C12-Adaptor.

* MD6 requires "W" dies.



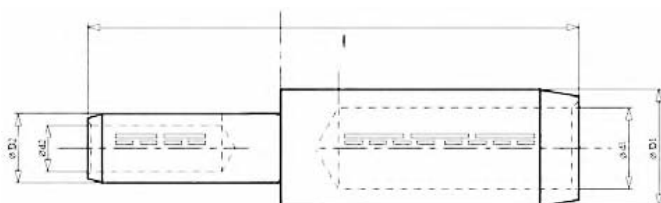
YR...A...C series

General features.

- Material: Al 99.5%, Cu 99.9%.
- Prefilled with neutral grease and capped.

Bimetallic reducer Al-Cu

Compliant with
DIN 46329 and DIN 46235



Section (mm²)	Packaging / 10 units		Dimensions (mm)				I	Mechanical	Tooling								
	Item code	Reference	Al		Cu				Hydraulic								
			Ø d1	Ø D1	Ø d2	Ø D2			Y500CT, EDW570, EMW670CM				HC120 / Y35 / EU1370*				
									Al	N° Crimp	Cu	N° Crimp	Al	N° Crimp	Cu	N° Crimp	
150	7586670	YR150A016C	16.3	25.0	5.5	8.4	104.0	W25DKT	5	UDK25BGE1T	5	UDK08BGE2T	3-2	UDK10BGE2T	3-2		
	7586675	YR150A025C			7.0	9.9										W10DKT	UDK12BGE2T
	7586680	YR150A035C			8.2	12.4											
	7586685	YR150A050C			10.0	14.3										W14DKT	UDK16BGE2T
	7586690	YR150A070C			11.5	16.3											
	7586695	YR150A095C			13.5	18.8										W18DKT	UDK20BGE2T
	7586700	YR150A120C			15.5	20.8											
	7586705	YR150A150C			17.0	23.3										W22DKT	UDK25BGE2T
185	7586710	YR185A050C	18.3	28.5	10.0	14.3	113.0	UDK28BGE2T	3	UDK28BGE2T	3	UDK14BGE2T	3-2	UDK16BGE2T	3-2		
	7586715	YR185A070C			11.5	16.3										UDK18BGE2T	UDK20BGE2T
	7586720	YR185A095C			13.5	18.8											
	7586725	YR185A120C			15.5	20.8										UDK14BGE2T	UDK16BGE2T
	7586730	YR185A150C			17.0	23.3											
	7586735	YR185A185C			19.0	25.3										UDK22BGE2T	UDK25BGE2T
	7586740	YR240A050C			10.0	14.3											
	7586745	YR240A070C			11.5	16.3										UDK14BGE2T	UDK16BGE2T
240	7586750	YR240A095C	21.0	32.0	13.5	18.8	125.0	UDK32BGE2T	3	UDK32BGE2T	3	UDK14BGE2T	3-2	UDK16BGE2T	3-2		
	7586755	YR240A120C			15.5	20.8										UDK18BGE2T	UDK20BGE2T
	7586760	YR240A150C			17.0	23.3											
	7586765	YR240A185C			19.0	25.3										UDK28BGE2T	UDK32BGE2T
	7586770	YR240A240C			21.5	28.7											
	7586775	YR300A120C			15.5	20.8										UDK18BGE2T	UDK20BGE2T
	7586780	YR300A150C			17.0	23.3											
	300	7586785			YR300A185C	23.3										34.0	19.0
7586790		YR300A240C	21.5	28.7	UDK18BGE2T		UDK20BGE2T										
7586795		YR300A300C	24.5	31.7				UDK22BGE2T	UDK25BGE2T								

* EU1370 to be used with U137C12-Adaptor.

* MD6 requires "W" dies.



Reducer Cu-Cu

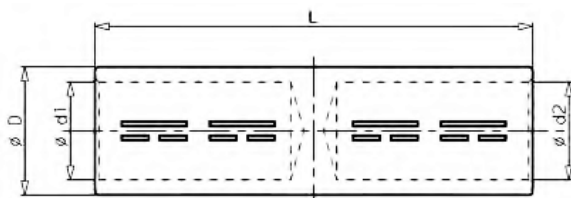
YR...C...C series

General features.

- Material: Cu 99.9%.
- Prefilled with neutral grease and capped.
- Please consult us for tin plated versions .

Compliant with

DIN 46297/T1



Section (mm²)	Item code	Reference	Pack.	Dimensions (mm)				Tooling							
				Al		Cu		Mechanical		Hydraulic					
				Ø d1	Ø d2	Ø D	L			Y500CT, EDW570, EMW670CM	N° Crimp	HC120 / Y35 / EU1370*	N° Crimp		
16	7586800	YR016C010C		5.5	4.5	8.5	55.0	MD50DM MD120DM MD6*	4 - 4	W08DKT	4 - 4	UDK08BGE2T	2-2		
25	7586805	YR025C010C		7.0	4.5	10.0	55.0		5 - 5	W10DKT	4 - 4	UDK10BGE2T	3-3		
	7586810	YR025C016C			5.5					UDK12BGE2T					
35	7586815	YR035C016C	8	8.2	5.5	12.5	55.0			W12DKT		5 - 5		UDK14BGE2T	
	7586820	YR035C025C	6		7.0										
50	7586825	YR050C025C		10.0	7.0	14.5	60.0		6 - 6	W16DKT	6 - 6	UDK18BGE2T		4-4	
	7586830	YR050C035C	6		8.2										
70	7586835	YR070C035C		11.5	8.2	16.5	60.0			W18DKT					UDK20BGE2T
	7586840	YR070C050C	6		10.0										
95	7586845	YR095C050C	5	13.5	10.0	19.0	75.0		W20DKT						
	7586850	YR095C070C	6		11.5										
120	7586855	YR120C050C	5		10.0										
	7586860	YR120C070C	5	15.5	11.5	21.0	75.0								
7586865	YR120C095C	5	13.5												
150	7586870	YR150C070C	4		11.5			W22DKT		UDK22BGE2T					
	7586875	YR150C095C	4	17.0	13.5	23.5	85.0								
	7586880	YR150C120C	10		15.5										
185	7586885	YR185C095C	4		13.5			W25DKT		UDK25BGE2T					
	7586890	YR185C120C		19.0	15.5	25.5	90.0								
	7586895	YR185C150C	5		17.0										
240	7586900	YR240C120C	4		15.5						UDK28BGE2T	4-4			
	7586905	YR240C150C	3	21.5	17.0	29.0	95.0								
7586910	YR240C185C		19.0												
300	7586915	YR300C150C	3		17.0								UDK32BGE2TGS1		
	7586920	YR300C185C		24.5	19.0	32.0	105.0								
	7586925	YR300C240C			21.5										
400	7586930	YR400C185C			19.0								UDK34BGE2T		
	7586935	YR400C240C	2	26.0	21.5	38.5	160.0								
	7586940	YR400C300C			24.5										
500	7586945	YR500C240C			21.5										
	7586950	YR500C300C		29.0	24.5	42.0	170.0								
	7586955	YR500C400C			26.0										
630	7586960	YR625C300C			24.5										
	7586965	YR625C400C		34.5	26.0	44.0	170.0								
	7586970	YR625C500C			29.0										
800	7586975	YR800C500C		40.0	29.0	52.0	235.0								
	7586980	YR800C625C			34.5										
1000	7586985	YR1000C625C		44.0	35.5	58.0	235.0								
	7586990	YR1000C800C			40.0										


* EU1370 to be used with U137C12-Adaptor.

* MD6 requires "W" dies.



“C” type copper connectors Mechanical lugs

C ... series “C” type copper connectors.

Ref. Copper	Ref. Tinned copper	Cable areas (mm²)				Assembly	 Die
		Mini		Maxi			
		1	2	1	2		
C 16	C 16 E	10	9	16	16	A + B	HCU 70
		16	2 x 1.5				
C 25	C 25 E	25	10	29.3	29.3	A	HCU 150
		27	6	35	16	A + B	
		30	2 x 1.5	30	16	A + B	
C 35	C 35 E	30	25	35	35	A + B	HCU 150
		50	2 x 1.5	50	16	A + B	
C 50	C 50 E	50	16	50	50	A	HCU 150
		63	2 x 1.5	70	30	A	
		75	25			A	
C 75	C 75 E	75	30	95	75	A + B	CC 95
		70	35	95	70	A + B	
		90	16				
C 95	C 95 E	75	75	95	95	A	CC 95
C 120	C 120 E	120	35	120	120	A	CC 150
		150	6	150	50	A	
C 150	C 150 E	150	75	150	150	A + B	CC 150
C 185-95	C 185-95 E	185	75			A + B	CC 150
C 185	C 185 E	115	95	185	185	A + B	CC 185
		150	60	185	150	A + B	

Other models on request.

1BR ... series Round tongue mechanical lugs.

Ref.	Area (mm ²)	L (mm)	Ø P (mm)	Ø B (mm)
Steel U-bolt and screws				
1BR 921	6 - 50	43	21	9
1BR 1125	6 - 70	55	25	11
1BR 1430	16 - 120	64	30	13
1BR 1632	25 - 150	70	32	13
1BR 1836	25 - 185	75	36	13
1BR 2240	70 - 300	85	40	19
Bronze U-bolt and screws				
1BR 921 B	6 - 50	43	21	9
1BR 1125 B	6 - 70	55	25	11
1BR 1430 B	16 - 120	64	30	13
1BR 1632 B	25 - 150	70	32	13
1BR 1836 B	25 - 185	75	36	13
1BR 2240 B	70 - 300	85	40	19

Special borings on request (Ø B) : 9, 11, 13, 15, 17 mm according to models.

CTR ... series Branch mechanical lugs with perpendicular tongue.

Ref.	Cable area (mm ²)	Tongue Ø P (mm)	Ø B (mm)
Steel U-bolt and screws			
CTR 10	6 - 75	26	11
CTR 16	35 - 150	36	13
Bronze U-bolt and screws			
CTR 10 B	6 - 75	26	11
CTR 16 B	35 - 150	36	13

Special borings (Ø B) on request.



C ...



C ... E



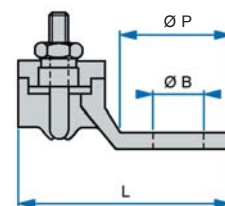
Assembly A



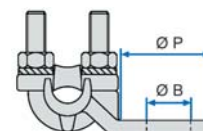
Assembly B



1BR ...



CTR ...





Recommended tools

Tools			
	DE / YAV / DEM / YCA / YCS series  Cu	"C" serie  Cu	CA / CAU / ECAU series  Alu
Cordless electro-hydraulic compression tools	(mm ²)	(mm ²)	(mm ²)
ED 520  EID 50 	4 - 150	6 - 35	—
EDC 620 	6 - 300	6 - 35	—
EC 1270 	6 - 400	6 - 185	—
EU 1370 	6 - 400	6 - 185	16 - 240
Hand operated mechanical compression tools			
HVD 32 	4 - 95	—	—
HVD 35 	4 - 150	—	—
HVD 51 	4 - 150	6 - 35	—
HDC 60 	6 - 300	6 - 35	—
HC 120 HC 125 	6 - 400	6 - 185	—
HU 137 	6 - 400	6 - 185	16 - 240
Plugable hydraulic compression tools			
SC 125 .. STC 125 .. 	6 - 400	6 - 185	—
SU 130 .. / SAU 130 .. SRU 130 .. 	6 - 400	16 - 95	16 - 240

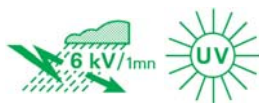


Hydraulic pump choice

Pumps	Hose L maxi		Plugable hydraulic compression tools
Hydraulic pumps 70 MPa (700 bars) SPM 2-005 ..  SPM 2-001 .. SPM 3-090 .. SPM 5-090 .. 	3 m		 SU 130 .. SAU 130 .. SRU 130 ..
Electro-hydraulic pumps 70 MPa SEPT 12 .. 			
Electric motor driven hydraulic pump 70 MPa SPT 20-585 .. 	6 m		 SC 125 .. STC 125 ..
Petrol engine driven hydraulic pump 70 MPa SPT 36-220 .. 	7.5 m		



Notched straps and plier Support straps



CCI 9-... P2 / CCD 9-... P2 series

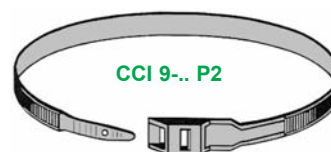
Notched straps.

- Material : Black polyamid 6-6 - Halogen free.
- Width 9 mm.
- Flame retardance UL94HB.
- Fitting temperature : - 15 à + 40 °C
- Dielectrical withstand dry, thickness 3 mm : 30 kV / mm.
- External agent strength : resist against bases, acids, oils, greases, hydrocarbons, salt fog, U.V. ozone resistant, etc....

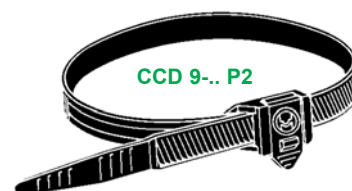
In accordance with HN 33-S-62 (04-97) standard.

Ref.	Ø mini/maxi (mm)	Closing withstand (*)		L (mm)
		Ø test (mm)	(daN)	
Unremovable notched straps				
CCI 9-42 P2	10 / 42			198
CCI 9-62 P2	20 / 62			
CCI 9-92 P2	20 / 92			
Removable notched straps				
CCD 9-42 P2	10 / 42	40 *	35	188
CCD 9-62 P2	20 / 62	40	35	251
CCD 9-92 P2	20 / 92	40	35	341
CCD 9-220 P2	74 / 220	85	35	762

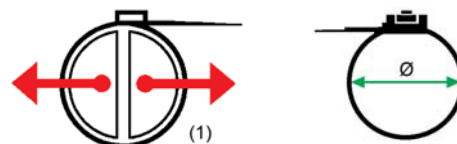
* 2 straps interconnected.



CCI 9-... P2



CCD 9-... P2



SERCOL

Plier to tighten and cut straps.



SERCOL



Notched straps and plier Support straps

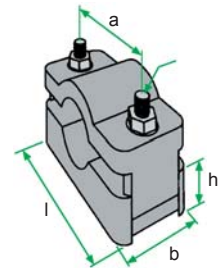
BSL ... / BS ... / BBS ... series

Supports straps in polyamid reinforced fiberglass

- Mechanical strength : 150 daN / mm².
- Coefficient of expansion : 0,01 % / 10° C.
- Operating temperature : – 40° C à + 130° C.
- Indoor or outdoor use.

Ref.	D (mm)		l (mm)	b (mm)	h (mm)	a (mm)	Ø (mm)
	Mini	Maxi					
BSL 18-26	18	26	62	32	16	44	6
BSL 25-38	25	38	70	32	20	52	6
BSL 35-50	35	50	95	42	25	75	8
BS3L 18-26	3 x 18	3 x 26	144	32	16	42	6
BS 25-38	25	38	97	60	26	70	11
BS 35-50	35	50	120	60	31	90	11
BS 49-66	49	66	141	80	35	110	13
BS 65-85	65	85	161	80	45	130	13
BS 105-130	105	130	225	90	70	190	13
BBS 25-36	3 x 25	3 x 36	150	80	35	110	12
BBS 33-46	3 x 33	3 x 46	170	80	35	130	12

Screws not supplied.



Type BBS



Type BS



Type BSL



Type BS3L

Obstruction lighting



DERVAUX SA



Obstruction lighting

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Obstruction lighting

DL 2000W 40-R40 (LED)

The obstacle warning device lights in the red / white mid-intensity lighting category.

DL2000W40R40 light is used to signal obstacles like : wind turbines, pylons, cranes, chimneys, bridges, building, ...

DL2000W40 light is a medium intensity A/B/C type, flashing white and flashing red.

Note : it can be used for A/B or A/C associated types in the same enclosure

Features :

- Luminous source : LED.
- Conformity : ICAO & STAC.
- Colour : White (day) / Red (night).
- Flash : 40 flashes / min \pm 20.
- Luminous intensity : White 20.000 cd / Red 2.000 cd.
- Usage temperature : - 55 to + 55°C.
- Voltage : AC (110-230Vac) or DC (20-55Vdc).
- Consumption: White < 100 W / Red < 30 W.
- Weight : 5 kg.
- Protection level : IP66.

Standards

Certification

FAA :
type L 864

ICAO :
Appendix 14 volume 1, 4th edition,
(07-2004)

Approval STAC
(Civile Aviation Technical Service)
2013A035



Ref.	Voltage	Extension
DL2000 W40R40 AC	230 V AC	—
DL2000 W40R40 DC	20 - 55 V DC	—
DL2000 W40R40 G AC	230 V AC	Synchronization GPS
DL2000 W40R40 G DC	20 - 55 V DC	Synchronization GPS





Obstruction lighting

BD 2000W (XENON)

The obstacle warning device lights in the red / white mid-intensity lighting category.

Photometry :

- Colour in accordance with ICAO or FAA recommendations: 2000 and 20000 cd
 - Night red.
 - Night red and day white.
 - Night white and day white.
- Automatic day/night switching.
 - Internal photoelectric cell.
 - Integrated red filter.
- Permanent lighting or adjustable flashes (20 to 60 flashes/minute).

Features :

- Isolated and UV stabilized casing.
- Lamp : spiral xenon tube.
- Fresnel lens: UV resistant injected acrylic.
- Control: flash settings, day/night switching and failure alarm governed by internal microprocessor.
- Day/night switching lights internally fitted with two photocells.
- Sealing: IP 65.
- Usage temperature: – 55 to + 55 °C.
- Dimensions: height 570 mm, diameter 425 mm.
- Weight: 13 kg.

Electrical characteristics:

- Usage voltage: 110 to 240 V AC - 50 / 60 Hz.
- Power consumption: 50 W (40 flashes / min).
- Surge protection: Class D, Class III according to IEC 61643-1.
- Security LED: presence of high voltage.

Installation:

Four 17 mm diameter holes located across a diameter of 240 mm.



CIP 200

Digital controller (optional)

This device controls :

- Synchronisation settings for the flashes (up to 89 lights).
- The light intensity of the flashes.
- Failure reporting.

Standards
Certification FAA AC150/5345-43F type L 865 & L 866 ICAO Appendix 14 volume 1, 4th edition, chap. 6 (07-2004) STAC PRO/STAC/SE/VIS/6003
Approval STAC (Civile Aviation Technical Service) 2010A014



BD 2000W XX-RXX



CIP 200



AREN 4-230-230

Power supply box.

Application:

- The power supply box ensures the operation of the obstruction lighting in case of a power outage.
- This box is a reliable and robust system that guarantees 12 hours of power to the air marking system.

Description:

This set includes:

- Waterproof box with a cover:
 - Sector voltage presence indicator.
 - Indicator for operation in secured mode.
 - Emergency mode selector.
- A set of batteries (lead/waterproof gel).
- Electrical protection:
 - Input circuit breaker.
 - Input on voltage surge.
 - Differential circuit-breaker output.
 - Lightning arrester output.

Features:

- Input voltage: 230 V AC.
- Output voltage: 230 V AC.
- Water-resistance: IP 66 with pressure equalisation vent.
- Battery capacity adapted to the number of beacons used.
- Autonomy of at least 12 hours.
- Load power: 100 W maxi.
- Apparent electric power: 150 V.A. maxi.
- 3 battery charge thresholds.
- Battery cut-out on low threshold.
- Operating Temperature: – 20 to + 55 °C.
- Dimensions: 800 x 600 x 300 mm.
- Weight 70 kg (with battery).

Optional:

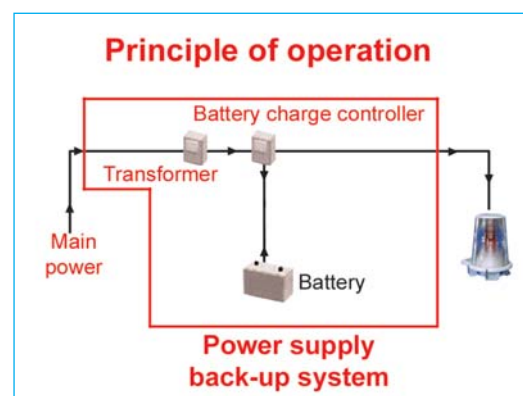
- Dry contact for fault signal.
- Twilight switch.

Accessories (optional):

- Base for ground mounting.
- Wall bracket.
- Fixing support.

Uninterrupted power supply for obstruction lighting

Standard
C 15-100





DERPACK range

DERPACK ... series

- The DERPACK warning light is used to mark obstacles in isolated zones without external power source.
- It operates autonomously by means of a solar module and a light with very low power consumption.
- This is a very low intensity type A light (10 Cd) permanent and red in accordance with ICAO and STAC recommendations.
- The solar panel is made up of single crystal technology.
- The system turns on automatically at night.
- Dervaux has dimensioned the batteries in order to obtain a power supply of 10 days without sunshine.
- The charge controller is type PWM (Pulse Width Modulation) for better performance.
- Dervaux is the only one that authorises the fitting of this equipment on site because the sizing is specific to the installation area.

Standards

ICAO

(International Civil Aviation organisation)
Appendix 14 volume 1,
4th edition, (07-2004)

STAC

(Civil Aviation technical Service)
PRO/STAC/SE/VIS/6003

Reference composition:

DERPACK **xx** **xx** **xx** **xxxx** **xx** **xx** **xx**

A
B
C
D
E
F
G

- A** : Peak solar panel power (W).
B : Light intensity (cd).
C : **Option ME** * (Master/slave system).
D : **CD Option** ** (Light defect dry contact).
E : ICAO, STAC aviation regulations ...
F : Support type.
G : Inclination of the solar panel.

* Master/Slave: a second light is powered (slave) in case of failure of the first (master).

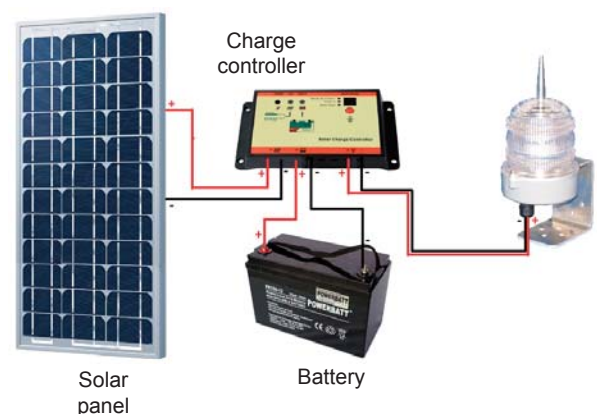
** Dry contact: In case of failure of the master light, a dry loop closes.

References :

DERPACK 30 10 STAC T1 45
DERPACK 30 10 CD STAC T1 45
DERPACK 30 10 ME CD STAC T1 45
DERPACK 50 10 STAC T1 45
DERPACK 50 10 CD STAC T1 45
DERPACK 50 10 ME CD STAC T1 45



Principle of Operation





DERBI range

DERBI ... series

- The DERBI warning light is used to mark obstacles: towers, chimneys, bridges, cranes...
- This is a very low intensity light, permanent and red in accordance with ICAO and STAC recommendations.
- There are two versions of light intensity:
 - 10 Candela Type A.
 - 32 Candela Type B.
- The light source is LED (light emitting diode) technology, which reduces power consumption and increase its shelf life (up to 100,000 hours).

Technical characteristics:

- Degree of protection: IP 68.
- Weight < 1 kg.
- Comes with 4 m cable.
- In case of failure of the light, a dry loop closes.
- Ability to enable or disable a twilight switch by infra-red remote control.
- Consumption:
 - Type A : 2, 5 W.
 - Type B : < 5 W.

Reference composition :

DERBI **xx** **xx** **xx**



A: Light intensity (cd).

B: AC supply voltage (110-230 V) and DC (10-60 V).

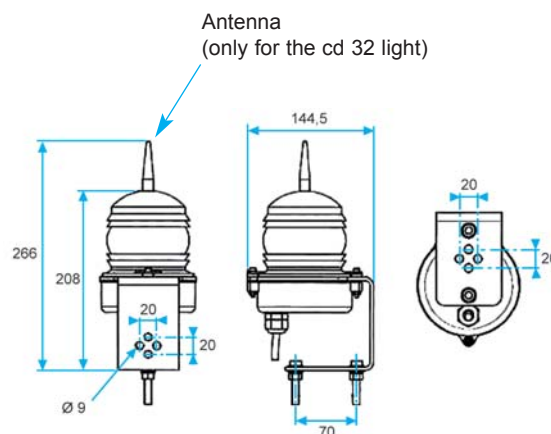
C: Master / slave system * MS.

* Master / Slave: a second light is powered (slave) in case of failure of the first (master).

Standards
ICAO (International Civil Aviation Organisation) Appendix 14 volume 1, 4th édition, (07-2004)
STAC (Civil Aviation Technical Service) PRO/STAC/SE/VIS/6003



Ref.	Light intensity (cd)	Supply (V)
DERBI 10 AC	10	110 - 230 (AC)
DERBI 10 AC ME		
DERBI 10 DC	10	10 - 60 (DC)
DERBI 10 DC ME		
DERBI 32 AC	32	110 - 230 (AC)
DERBI 32 AC ME		
DERBI 32 DC	32	10 - 60 (DC)
DERBI 32 DC ME		





Stand-alone marine lights

SL ... / SLC ... series

Our marine lights are designed to be extremely simple, maintenance-free and very reliable.

Principle of Operation:

- The light source of marine lights is made of ultra high density LED's.
- The light emitted is then rectified and focused by a "Fresnel" type protective glass in UV stabilized polycarbonate.
- A low-consumption central microprocessor manages the functions through specific software.
- These functions include the activation of LEDs at night, the possibility of selecting an appropriate flash code and adjusting the light intensity.
- The microprocessor is used to control the LEDs via a DC/DC converter. This allows the LEDs to operate in accordance with the manufacturer's specifications, with various input voltages and in ambient air temperature.
- At nightfall, the microprocessor automatically adjusts to the rhythm selected by the wheels and activates the light.

Operating principle of the compact solar lights:

- The solar module converts light sunbeams into electrical current, which is used to charge the battery, which then provides the power necessary for the operation of the light by night.

- The performance of the solar units is based on solar exposure corresponding to an angle of more than 15° latitude.

At this point, the unit receives maximum sunshine. Solar units provide exactly the same energy production on cloudy or overcast days, but in a downgraded mode.

That is why some light models on fixed supports have adjustable solar modules to face the sun. The user must ensure that the beacon is located in an open area without any shade on the solar units.

Similarly, for maximum efficiency, it is important to wipe the solar units from time to time.



SL 15



SL 60



SL 70



SLC 310



SLC 420



SLC 500



SLC 600

Ref.	Visibility range (NM)
SL 15 (*)	1 / 2
SL 60 (*)	2 / 3
SL 70 (*)	2 / 3
SLC 310 (*)	3 / 5
SLC 420 (*)	4 / 6
SLC 500 (*)	5 / 7
SLC 600 (*)	6 / 9

(*) : Available light and housing colours : white, yellow, green, red.

(NM) : Nautical Miles.



SL ... series / APOLLO

Our marine warning lights are designed to be extremely simple, maintenance-free and very reliable.

The new Apollo marine warning light (long range light) is visible up to 12 NM.

Principle of Operation:

- The light source of marine lights is made of ultra high density LED's.
- The light emitted is then rectified and focused by a "Fresnel" type protective glass in UV stabilized polycarbonate.
- A low-consumption central microprocessor manages the functions through specific software.
- These functions include the activation of LEDs at night, the possibility of selecting an appropriate flash code and adjusting the light intensity.
- The microprocessor is used to control the LEDs via a DC/DC converter. This allows the LEDs to operate in accordance with the manufacturer's specifications, with various input voltages and in ambient air temperature.
- At nightfall, the microprocessor automatically adjusts to the rhythm selected by the wheels and activates the light.

Marine light with DC power supply APOLLO light



SL 125-1



SL 125-3



SL 125-4



APOLLO

Ref.	Visibility range (NM)
SL 125-1 (*)	5 / 6
SL 125-2 (*)	6 / 7
SL 125-3 (*)	7 / 8
SL 125-4 (*)	8 / 9
APOLLO (*)	4 / 12

(*) : Available housing colours : white, yellow, green, red.

(NM) : Nautical Miles.

Subsea cable accessories



SICAME UK



Subsea cable accessories

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Subsea cable accessories :	
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Bespoke Engineering Solutions

Sicame UK (WT Henley) have been providing solutions for electricity utilities, specialist renewable energy developers and oil and gas majors for over 50 years. The products have been used all over the world and Sicame UK (WT Henley) are proud to have been involved in many very prestigious projects, with utilities, offshore oil and gas, and renewable power

Typical Products

- Splitter pot
- Pulling head
- Subsea repair joint
- Armour termination hangoff
- Pre-fit hangoff



Splitter pot



Pulling head



Armour termination hangoff



Pre-fit hangoff



Subsea repair joint



Platform cable hangoff



Other accessories

In addition to the above products, Sicame UK (WT Henley) can provide the full range of accessories required to enable the successful installation and operation of electrical or composite Electrical / optical submarine cables and umbilical's including.

- Beach clamps
- Beach / transition joints
- Bend stiffeners
- Bend restrictors

	Repair Joints	Pull-Heads	Hangoff Systems
Conductor range	Up to 1200 sqmm, 3 core or single core		
Conductor materials	Stranded copper or aluminium		
Maximum system voltage	36 kV	N/A	N/A
Armour	single or double		
Optic fibre capacity	144 (3x48) single or multimode		
Control cores	Pairs, Quads and Multicore screened or unscreened		
Maximum water depth	500 m		N/A
Tensile performance	200 kN or to cable limitations		Temporary Clamp: 40 kN Permanent Armour Clamp : 100 kN
J-Tube flange	36 kV	N/A	ANSI or DIN type
Gas sealing	N/A	N/A	Available to 1 bar pressure
Corrosion protection	Armour casings and joint shell are zinc sprayed (250 microns) and sealed (25 microns). To BS EN ISO 14713:2009 and epoxy coated.	Part hot dipped galvanised to BS1461 and part zinc plated & iridescent passivate to BS7371	Hot dipped galvanised to BS1461:2009 (140 micron thickness)
Additional cathodic protection	Passive zinc anodes available	N/A	N/A
Normal design life	25 years	Up to 5 years submersion fully sealed	25 years

Safety and Prevention



CATU



Safety and Prevention

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Warning signs

Warning signs

Special tool steel, oil-hardened

Ref.	Type	Dimensions	Colour
AM-344-GB	aluminium	100 mm side	Black letters on yellow
AM-345-GB			Black letters on yellow
AM-344	aluminium	50 mm side	Black and yellow
AM-344 / 05		100 mm side	
AM-49 / 1		200 mm side	
AM-49 / 2		100 mm side	
AM-41 / 1		200 mm side	
AM-41 / 2	aluminium	Ø 80 mm	White letters on red
AM-467-GB		Ø 100 mm	
AP-499 / 1	plastic	350 x 250 mm	Blue letters on plain aluminium
AM-20-GB	aluminium	297 x 210 mm	Golden rules
AP-510-BT-GB	plastic		



AM-344-GB



AM-345-GB



AM-49-...



AM-41-...



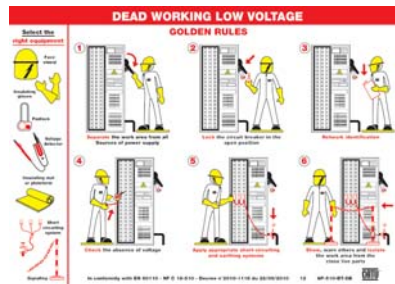
AM-344 AM-344/05



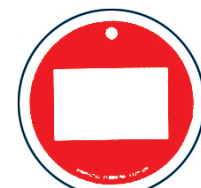
AM-467-GB



AM-20-GB



AP-510-BT-GB



AP-499/1

Substation signs

Specialist signs.

Ref.	Type	Dimensions	Colour
AM-61-GB	aluminium	200 x 150 mm	Black & yellow
AM-61-RM		200 x 150 mm	
AM-282 / 2-RM		200 x 60 mm	
AM-7002		200 x 300 mm	
AM-32 / 3		Ø 300 mm	
AM-33 / 3	aluminium	Ø 200 mm	Red / Black on alu
AM-34 / 2		200 x 200 mm	
AP-951 / 2	Plastic		White & red



AM-61-GB



AM-61-RM



AM-282/2-RM



AP-951/2



AM-7002



AM-20-RM



AP-510-GB



AM-32/3



AM-33/3



AM-34/2



Substation equipment

KIT-01

Intervention kit

Composition	Ref.
1 pair of insulating gloves - Class 3 - Voltage : 26.5 kV maxi Size : 10 - Weight : 0.560 kg	CG-3-10-NR
1 Plastic storage box with window for insulating gloves Delivered with fixing screws and talcum bottle (60 cm ³) Dimensions : 60 x 210 x 460 mm	CG-35/2
1 insulating stool - Voltage 24 kV maxi Dimensions : 500 x 500 x 220 mm	CT-7-25/1
1 Fuse holder Delivered with fixing elements - Dimensions : 90 x 240 x 260 mm	CI-23
1 Rescue stick Voltage : 45 kV maxi - Length : 1.65 m Delivered with wall mounted supports. CI-06-D	CS-45

Other intervention kits: contact us.



MS-130/1

II 2 G Ex ib IIC T4

Rechargeable Yellow torch Zone 1

- Transformer operating on 220 V or 12 V.
- Lumens: 40, Dimensions: 17.8 cm, 4 AA NiMH included, 220 g
- 32 hours autonomy



CD 131

AL- ... EX

Safety padlocks

Red colour, sticker with pictogram "Do not operate". The shackle is made of brass and with a red insulating layer for the range AL-260.

Ref.	Height (mm)	Diameter Ø (mm)	Weight (g)
AL-230-(**)-EX	50	6	204
AL-230-Z-EX		6	204
AL-240-(**)-EX		4	192
AL-240-Z-EX		4	192
AL-260-(**)-EX		6.2	200
AL-260-Z-EX		6.2	200

(**) Add key numbers: 111 or 222



BAR-52

MV / LV substation earthing device

- Two copper studs (Ø 12 x 40 mm) mounted on a plate made of aluminium.
- Dimensions: 240 x 190 x 100 mm
- Fixation holes: Ø11 mm



BAR-52



IEC short-circuiting and earthing systems for MV substations

MT-1910 / MT-1920

Installation on permanent fixed points.

MT-2951 : Ø 20
MT-3951 : Ø 25



Ref.	Rating (kA / 1s)	Installation on fixed points	Composition	Connection set
MT-1910	20	Ø 20 mm MT-2951 range	3 MT-1911-E 1 MT-1911	3 cables 95 mm ² 1 earth cable 35 mm ²
MT-1920	30	Ø 25 mm MT-3951 range	3 MT-1921-E 1 MT-1921	3 cables 150 mm ² 1 earth cable 50 mm ²

IEC 61230



Earth and contact clamps.

Claw for "T" or round fixed points for round conductors.

Ref.	Characteristics	Rating (kA / 1s)	Masse (kg)
MT-1911-E	Claw for : "T" fixed points MT-1951 ... Ø 20 mm round fixed points MT-2951 ... Round conductors Ø 8 to 18 mm	20	0.580
MT-1921-E	Claw for : "T" fixed points MT-1951 ... Ø 25 mm round fixed points MT-3951 ... Round conductors Ø 10 to 25 mm	30	0.690
MT-1911	Same characteristics MT-1911-E with handle	20	—
MT-1921	Same characteristics MT-1921-E with handle	30	—
M-9573	Handle with C fitting	—	—



MT-1911
MT-1921



MT-1911-E
MT-1921-E

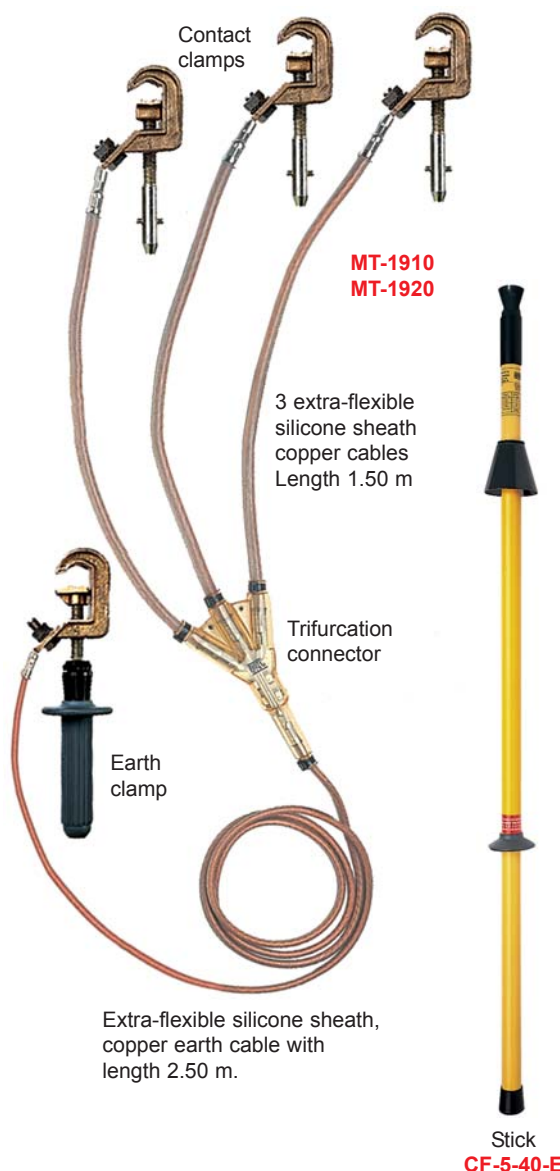


M-78665

Accessories

Ref.	Designation
MT-890	Clamps 3 claws
MT-891	Earth clamp fixation
MT-893	Cable tensioner
MT-895	Cable kit support
CI-10-D	Wall mounted support for stick CF-5-40-E
M-78665*	Carry case (plastic) for earthing equipment

*To be ordered separately





IEC short-circuiting and earthing systems for MV substations

MT-5805 / MT-8408 / MT-9801

Installation on bare conductors.

Ref.	Rating (kA / 1s)	Conductor / fixed points	Composition	Connection set
MT-5805	20	Ø 5 - 35	3 MT-815-C 1 MT-840/1	3 cables 95 mm ² 1 earth cable 35 mm ²
		16 - 40		
		5 - 40		
MT-8408	12.5	Ø 18 - 33	3 MT-814/3 1 MT-840/1	3 cables 70 mm ² 1 earth cable 35 mm ²
		—		
		—		
MT-9801	10	Ø 5 - 16	3 MT-817-C 3 MT-814/2 1 MT-840/1	3 cables 50 mm ² 1 earth cable 25 mm ²
		0 - 16		
		Ø 5 - 28		

Delivered in plastic carrying case **M-78665**.



MT-840/1



MT-815-C



MT-817-C



MT-814/2
MT-814/3



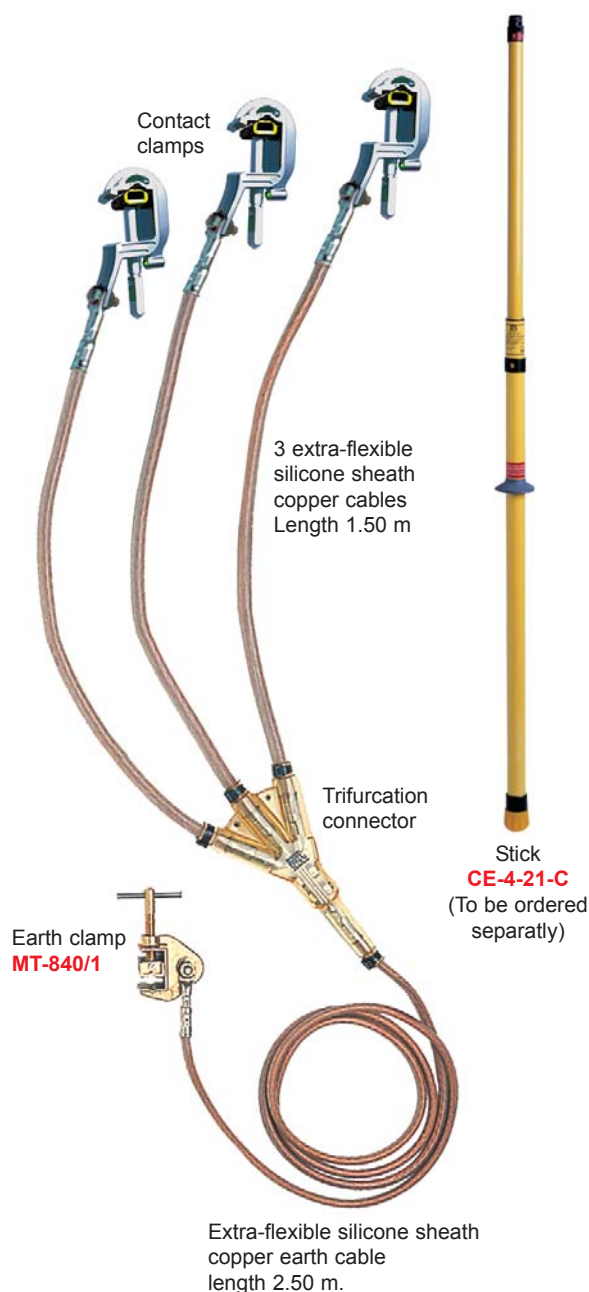
M-78665

Accessories

Ref.	Designation
MT-890	Clamps 3 claws
MT-891	Earth clamp fixation
MT-893	Cable tensioner
MT-895	Cable kit support
CI-06-D	Wall mounted support for stick CE-4-21-C



IEC 61230





MV

Voltage detectors

CC-765- ... series

IEC electronic Voltage Detectors, "Compact series" for indoor and outdoor use.

Ultimate technology of voltage detector "Head Capacitive Technology" Compact and light, it offers a wide band **3-36 kV**.

Operating check:

By pressing the TEST button:

- A **RED** LED flashes on.
- Powerful rated audible signal > 60 dB(A)/2 m.
- When loosening the button, the timed **GREEN** LED lights up.

While remaining on, it indicates the good working order of the detector.

Characteristics:

- Precise and stable operating threshold.
- High environmental resistance (impacts, vibrations, moisture).
- Temperature conditions: class N
- Use from 50 to 60 Hz.
- Recommended stick **CE-4-21-...**
- Voltage detector in storage box

Voltage detector in storage box				
Ref.	Type of mounting	Voltage range (kV)	Dimensions (mm)	Weight (g)
CC-765-3/10-K	K	3 - 10	Ø 59 x 270	350
CC-765-3/10-C	C			
CC-765-10/30-K	K	10 - 30		
CC-765-10/30-C	C			
CC-765-10/36-K	K	10 - 36		
CC-765-10/36-C	C			
CC-765-55/20-K	K	5,5 - 20		
CC-765-55/20-C	C			

Accessories in option

MO-984	Silicone rag		
CE-4-21-C	Telescopic stick	90	2 m

For other voltage range: contact us.

CC-965- ... series

IEC electronic Voltage Detectors, with antenna for indoor and outdoor use.

Description

- Ultimate "head capacitive technology" of voltage detector.
- Universal application 50 / 60 Hz and wide band of voltage from **5 to 30 kV**.
- Category S (Substation) with electrode extension.
- The electrode extension is designed to ensure no inside failure.
- Equipped with its insulating stick : Assembly by screwing.

Characteristics:

- Temperature conditions: **class N** (-25 to 55°C).
- Electrode extension diameter : 14 mm.
- Power supply: 1 standard 9 V battery 6LR61.
- Contact electrodes fitted by screwing and easily interchangeable.
- Packaging: supplied in a carrying bag with zip (930 mm x 200 mm) and transparent side pocket.
- **CE** marking complies with **EMC** immunity regulations.

Ref.	Voltage range (kV)	Lenght (m)	Diameter (mm)	Weight (g)
CC-965-10/30	10 to 30	1.55	59	850
CC-965-5/15	5 to 15	1.45	59	820

Accessory

M78723	Plastic carrying case
--------	-----------------------

Contact electrodes fitted to the housing by screwing and easily interchangeable

IEC 61243-1
CE



MO-984



CC-765- ...

IEC 61243-1 / 1 Ed 2 (2003)
CE



Assembly by screwing



CC-965- ...

Voltage presence is indicated by: **RED** flashing LED (very bright, visible at more than 20 m in direct lighting). Powerful rated audible signal > 67 dB (A) / 1.5 m.



M78723

Voltage detectors

CL-4 ... series

Voltage detectors with leds for indoor use without batteries.

- Built-in device for checking operation of the led's indicator via a piezo-electric generator.
- High-brightness led's indicator
- Pivoting contact electrode enabling wire contact at any angle.
- Sturdy thermo-plastic moulded housing
- Ø 58.5 mm compatible with aperture

Ref.	Voltage range (kV)	Length (m)		Weight (kg)
		Folded up	Unfolded	
CL-4-10/30 M *	10 - 30	—	1.35	1.000
CL-4-10/30-2 **		0.85	1.26	0.950

* Delivered in vinyl sheath with wall mounted supports **CI-06-D**.

** Delivered in canvas, waterproofed with ramp.

C 18-311



Fixed stick
CL-4-10/30-M



Telescopic stick
CL-4-10/30-2



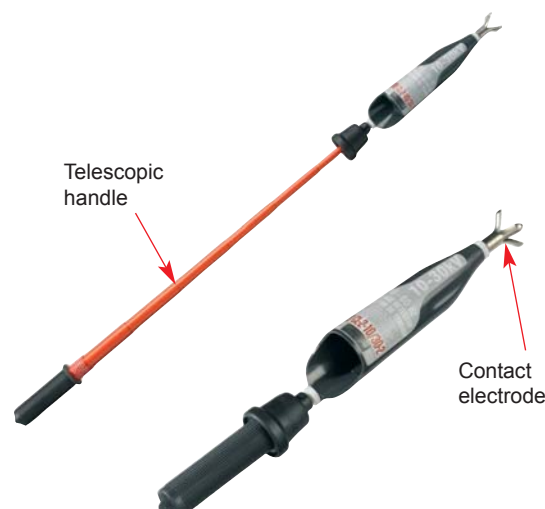
CL-2 ... compact series

Voltage detectors with leds for indoor use without batteries.

- This compact series voltage detector is designed to be carried easily by operators.
- Voltage presence is indicated by high-brightness LED
- Built-in device for checking operation of the led's indicator by a piezo-test generator.
- Equipped with a telescopic handle

Ref.	Voltage range (kV)	Length (m)		Weight (g)
		Folded up	Unfolded	
CL-2-5/36-2	5 - 36	0.33	0.90	400
CL-2-10/30-2	10 - 30			

Other models fixed or telescopic, please contact us.
Delivered in holster.



DETEX CL-8-36 series

Two-pole phase comparators for indoor use

The **DETEX CL-8-36** detects differences in voltage between any two points of an installation indicated by LED's. It also enables assessment of the order of magnitude of the residual voltage induced by nearby live lines or circuits, and thus differentiates it from the one provided directly from a high voltage source.

Ref.	Voltage range (kV)	Dimensions aerial		Weight (kg)
		Assembled (m)	Dismantled (m)	
CL-8-36	2 to 36	1.25	0.62	1.1
CL-8-36/1*				1.3

Accessories

C-92-20	Spare probe 0.550
CL-8-05	Probe extenders 0.550

Unlike single-core voltage testers, dual core testers can recognize potential differences between any two points in an MV installation. Primarily reserved for conductors of the same phase (matching), they can also be used for dual core detection and for testing MV fuses.

CL-1-06

Operating testers

To perform mandatory testing on the controllers before and after each use.

Characteristics:

- Delivered in case with lead
- Adjustable voltage range: 10, 20, 30 kV
- Dimensions: 190 x 32 x 65
- weight: 320 g

CL-5-.. series

Two-pole phase comparator for indoor and outdoor use

Complete function testing: built-in, with TEST push-button (battery supplied). Consists of two elements connected by a high-insulation lead.

- Removable handles.
- Device delivered in metal case.
- Dimensions: 140 x 250 x 850 mm
- Type 6 LR-61: 9V

Ref.	Voltage range (kV)	Dial scale (kV)	Weight (kg)
CL-5-36	5 - 36	5 - 10- 15 - 20 - 25 - 30 - 33 - 36	7.5
CL-5-03	0.75 - 3	0.750 - 1 - 1.25 - 1.5 - 3	

CC-151-K (10 to 36 kV)

Voltage tester for M.V. separable connectors

- Checks the absence of voltage on the capacitive terminals of plug-in M.V. bushings.
- Sensor in the form of a bent finger enabling removal and reinstallation of the terminal insulating cover.
- Signal via beeping and bright red flashing of electro-luminescent diodes.
- Built-in function test via the "TEST" button which covers the entire device.
- Permanent stand-by state.
- Power supply: four 1.5 V, R-6 batteries.
- Mounting on insulating stick via a universal end.
- Tester in rigid case with batteries 70 x 100 x 165 mm.
- Weight: 700 g

Phase comparators

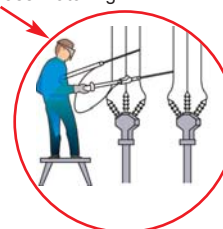


Two 1.25 m elements with removable probes, connected via a high-insulation lead.

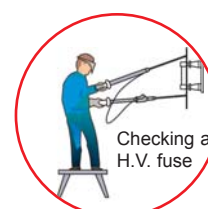
High dielectric quality insulating material.

CL-8-36

Checking for phase matching



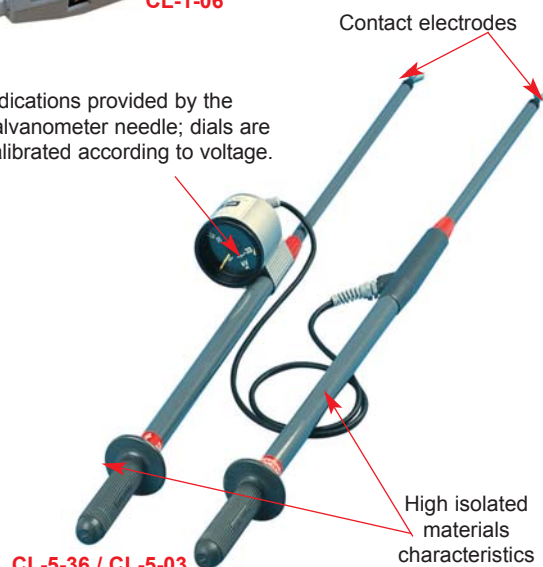
Checking a H.V. fuse



CL-1-06

Contact electrodes

Indications provided by the galvanometer needle; dials are calibrated according to voltage.



CL-5-36 / CL-5-03

High isolated materials characteristics



CC-151-K



Short-circuiting and earthing systems for separable connectors

Short-circuiting and earthing systems for 250 et 400 A sockets.

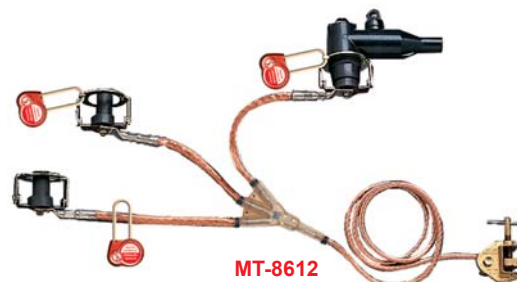
(Icc : 12.5 kA / 1s).

Equipment consisting of :

- Three EPDM earthing studs, each fitted with a lockout device.
- A short-circuiting / earthing assembly with double crimped terminal including three short-circuiting cables, an earthing cable, an earthing clamp and three padlocks.

MT-8612

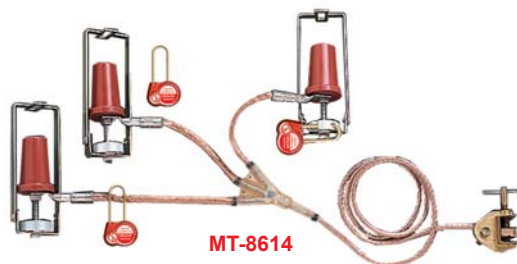
System (250 A) delivered in a metallic carrying case including three copper short-circuiting cables (section 70 mm² - length 0.7 m), a copper earthing cable (section 35 mm² - length 2 m), an earthing clamp and three padlocks (AL-230).



MT-8612

MT-8614

Connection assembly (400 A) delivered in a metallic carrying case including three copper short-circuiting cables (section 70 mm² - length 0.4 m), a copper earthing cable (section 35 mm² - length 2 m), an earthing clamp and three padlocks (AL-230-S).



MT-8614

AL-245

Lock-out system for 400 A insulating covers.

Consists of: 3 female insulating covers 400 A, 3 lock-out devices and 3 padlocks.



AL-245

MT-8601 / MT-8602

Stowage devices.

- Used to reenergize the cable.
- Equipment consisting of three EPDM insulating studs, each fitted with a lockout device and three padlocks.

MT-8601 (250 A).

Delivered with three padlocks in a plastic carrying case.



MT-8601

MT-8602 (400 A).

Delivered with three padlocks in a plastic carrying case.



MT-8602



MT-830-P

Telescopic stick (3 elements).

Ref.	Use voltage (kV)	Length (m)	
		Folded	Extended
MT-830-P	45	0.64	1.50

CE-4-21-.. series

Telescopic sticks.

Ref.	Fitting	Use voltage (kV)	Length (m)	
			Folded	Extended
CE-4-21-C	C	90	1.15	2.00
CE-4-21-K	K			
CE-4-21-E	E			

Delivered with wall mounted supports.

CS-45

Rescue stick delivered with hook and wall mounted supports

Ref.	Use voltage (kV)	Tube Ø (mm)	Length (m)
CS-45	45	28	1.65

CT-7- .. /1 series

Indoor insulating stools.

Ref.	Class	H (cm)	Rated insulation (kV)
CT-7-25/1	4	22	≤ 24
CT-7-40/1	5	26	≤ 40

MP- ..

Insulating mats.

Ref.	Thickness (mm)	Class	Voltage (kV)	Dimensions (m)
MP-42/66	3	3	≤ 26.5	0.60 x 0.60
MP-42/11	3	3	≤ 26.5	1.00 x 1.00
MP-100/05-5	5	4	≤ 36	1.00 x 5.00

CZ-54-R

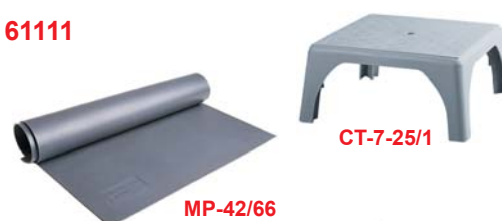
Life-saving kit delivered with a set for mural fastening.

Voltage : 24 kV.

Composition
1 Rescue telescopic stick
1 Voltage detector (3-40 kV) with a self-test and flexible probe
1 Insulating stool (24 kV)
1 Pair of HV insulating gloves
1 Pair of insulating boots
1 "First aid" poster fixed to the transparent cover
1 Manual cable-cutter with insulated handles
1 Talcum powder can for gloves

For 36 kV, please consult us

Insulating accessories Life-saving kit





KIT-HAUT-05

EN 388 / 361

Equipment for working on pole: full body fall arrest harness

Ref.	Composition	
	Harness ref	Accessories ref.
Anti-fall kit		
KIT-HAUT-05	MO-71	1 MO-52020
		1 MO-56009
		1 M-87-295
Accessories		
MO-71	Designation	
MO-71	Anti-fall harness (single size)	
MO-52020	Double safety anti-fall tether with energy absorber (length 1.50 m)	
MO-56009	Safety tether with tensioner (length 2 m)	
M-87-295	Carrying canvas bag	

Individual protective equipment



KIT-HAUT-05

MO-183- .. series

Polycarbonate helmet

- Protects against vertical and side impacts, very well ventilated.
- Improved comfort.
- Adjustable size from 53 to 63 cm.
- Deformable shock-resistant helmet.
- Head fit adjustment by milled wheel.
- Chinstrap with an easy adjustment buckle.
- Designed to tear if hooked (< 25 daN).

Ref.	Colour	Weight (g)
MO-183-BL	White	455
MO-183-R	Red	

Accessories

M-87384	Bag cover for transporting and protecting helmets and shields
---------	---



MO-183-BL



MO-183-R

EN 12492
EN 397 440 V
EN 50365 Δ 1000 V
ANSI Z89.1 20 000 V



MO-185- .. series

Helmet with built-in face shield

- Industrial helmet with integrated face shield.
- **Approved for protection against electric arcs.**
- Electrical isolation 1000 V.
- Head fit adjustment by milled wheel.
- Panoramic face shield in non-scratch and anti-mist polycarbonate.
- Chinstrap (with Velcro fastening).

Ref.	Colour	Weight (kg)
MO-185-BL	White	0.720
MO-185-J	Yellow	

Accessories

M-87384	Bag cover for transporting and protecting helmets and shields
MS-124	Headlamp (4 LED'S)



MO-185-BL



MS-124
Assembly



MS-124



M-87384

IEC 61482-1-2 (Class 1)
GS-ET 29
EN 166 / EN 170 / EN 397
EN 50365 Δ 1000 V





Individual protective equipment

IEC 60903 / EN 60903

CG- .. series

Electric Insulating latex gloves

- High dielectric performance.
- It is recommended to use these latex gloves with leather over-gloves (CG-981; CG-991) to ensure a mechanical protection.
- Individually tested, they are packed in coloured plastic bag; the colour corresponds to the class.

Ref.	Class	Voltage (V)	Category	Length (mm)	Color	
CG-05-(*)	00	≤ 500	AZC	360	Natural	
CG-10-(*)	0	≤ 1 000			RC	Bi-colour: red outside, natural inside.
CG-1-(**)	1	≤ 7 500				
CG-2-(**)	2	≤ 17 000				
CG-3-(**)	3	≤ 26 500				
CG-4-(**)	4	≤ 36 000		410		

(*) Complete by size codes A=8, B=9, C=10, D=11

(**) Complete by size codes 7 to 12 (sizes 7 and 12 on request).



CG- ...

CG-981- .. series

Leather over-gloves.

- Use with insulating gloves for classes 00 and 0.
- Very soft silicone grain leather with fitted thumb.
- Straps to adjust to fist size.
- Performance 3122 according to EN 388.
- Large protective cuff in chrome tanned hide.

Ref.	For glove class	Size	Weight (g)
CG-981-A	00 and 0	A = 08	160
CG-981-B		B = 09	
CG-981-C		C = 10	
CG-981-D		D = 11	

EN 388 / EN 420



CG-981- .

CG-991- .. series

Leather over-gloves.

- Use with insulating gloves for classes 1 to 4.
- Very soft silicone goat grain leather with fitted thumb.
- Straps to adjust to fist size.
- Performance 2121 according to EN 388.
- Large protective cuff.

Ref.	For glove class	Size	Weight (g)
CG-991-A	1 to 4	A = 08	200
CG-991-B		B = 09	
CG-991-C		C = 10	
CG-991-D		D = 11	
CG-991-E		E = 12	



CG-991- .



Individual protective equipment

CG-80- .. series

Cotton under-gloves.

- Improve the use of insulating gloves.
- Provide improved strength and comfort.
- Washable cotton under-gloves.
- Delivered in vinyl bag (5 pairs per bag).

Ref.	Characteristics
CG-80-H	Single size men
CG-80-F	Single size women



CG-80- ..

CG-36

Carrying bag for insulating gloves.

- Made of reinforced waterproof fabric for transport of rubber gloves in vehicles and tool boxes.
- Rear hook for belt and snaps.
- Dimensions : 90 x 175 x 585 mm.



CG-36

MV-137- .. series

Insulated boots.

- Electrical insulating protection against step voltage.
- Made of elastomer, very supple, comfortable and resistant.
- Epoxy coated toe cap.
- Slip resistant rubber sole.
- Removal, washable insole.
- Kick off lug for hands free removal.

CE EN 50321

Réf.	Class	Size	Insulation (kV)	
			Boot	Sole
MV-137-39	0	39	20	35
MV-137-41	0	41		
MV-137-42	0	42		
MV-137-43	0	43		
MV-137-44	0	44		
MV-137-45	0	45		
MV-137-46	0	46		
MV-137-47	0	47		



MV-137- ..



Insulated tools

KIT-25

Complete intervention kit (dual-material).

Ref.	Composition
	2 "Pozidriv" screwdrivers
MO-72042	– blade N° 1: Length: 100 mm
MO-72044	– blade N° 2: Length: 125 mm
	3 Flat screwdrivers
MO-72004	– blade 4 x 125 mm
MO-72006	– blade 6 x 150 mm
MO-72008	– blade 8 x 175 mm
MO-72102	1 Universal plier Length: 180 mm
MO-72155	1 Pump plier Length: 250 mm
MO-72172	1 Stripping plier (Capacity 0.5-10 mm max. Cu or Alu / length 160 mm)
MO-72142	1 Bent snipe nose plier Length: 160 mm
MO-72200	1 Cable cutter plier (Capacity Ø 5 mm max. Cu or Alu / length 160 mm)

IEC 60900



KIT-25

M-87370

Electrician tool bag.

- Made of waterproof canvas with reinforced bottom and adjustable strap.
- Dimensions : 440 x 330 x 160 mm.
- Weight : 1.1 kg.



M-87370

MO-38510

Intervention kit for electricians.

Ref.	Composition
M-87370	1 Tool bag
CG-05-C	1 Pair of insulating gloves - class 00 - size C =10
MO-11001	1 Pair of protective safety glasses
AL-230-111	1 Sealing off padlock
	3 Insulated flat screwdrivers
MO-65204	– blade: 3.5 x 100 mm
MO-65206	– blade: 5.5 x 125 mm
MO-65209	– blade: 8 x 175 mm
	2 Insulated "Pozidriv" screwdrivers
MO-65242	– blade N°1: Length: 80 mm
MO-65244	– blade N° 2: Length: 100 mm
MO-66002	1 Insulated universal plier (length 180 mm)
MO-66402	1 Insulated bent snipe nose plier (length 160 mm)
MO-67302	1 Insulated stripping plier (length 160 mm)
MO-67500	1 Insulated cable-cutter plier (length 180 mm)
MO-66502	1 Insulated waterpump plier (length 250 mm)

IEC 60900



Each product can be ordered separately

MV / LV underground networks



**CONNECTION
PROTECTION**

**SICAME
HÖHNE**



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LV underground networks

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Mechanical termination lugs

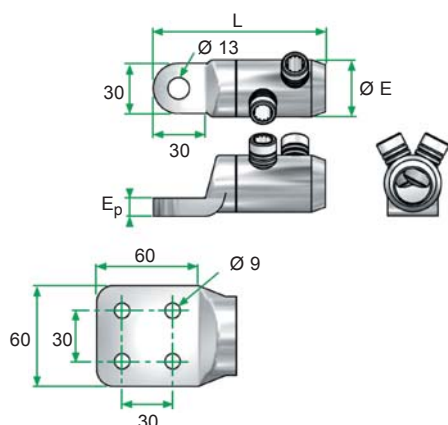
USML ... series

Mechanical termination lugs for connection of MV underground cables.

- Lugs to be used for aluminium or copper circular stranded cables (XLPE, EPR or PILC).
- Maximum voltage : 42 kV
- Tightening of shear head screws :
 - manually with **JTS 16** wrench.
 - with an impact gun equipped with **JTS 9** wrench.
- Thanks to patented design, the shear head breaking off always occurs inside the lug body (never protruding), in order to reduce electrical stress, for all conductor dimensions, and covers a large range of square sections.

Description :

- Centred bore (**USML 3** and **8**).
- Tapered edge (**USML**).
- Lug of tinned aluminium alloy and screws of aluminium alloy.



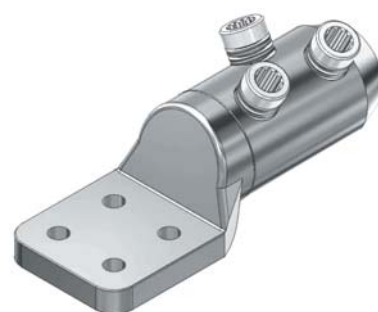
Ref.	Cable range Alu (mm ²)	Ep (mm)	L (mm)	Ø E (mm)	Number of screws
USML 1	25 - 120	10	88	28	2 x M 16
USML 2	50 - 240	12	98	34	
USML 3	240 - 500	12	158	47	3 x M 18
USML 8	400 - 630	14	158	51	

Standards

BS 4579 : Part 3
ANSI C119.4 (class A)



USML 1
USML 2



USML 3
USML 8



JTS 16



JTS 9





Mechanical termination lugs

EUML ... series

Mechanical termination lugs for connection of MV underground cables.

- Lugs to be used for aluminium or copper circular stranded cables (XLPE, EPR or PILC).
- Maximum voltage : 42 kV
- Tightening of shear head screws :
 - manually with **JTS 23 / 24** wrench.
 - with an impact gun equipped with **JTS 26 / 27** wrench.
- Thanks to patented design, the shear head breaking off always occurs inside the lug body (never protruding), in order to reduce electrical stress, for all conductor dimensions, and covers a large range of square sections.

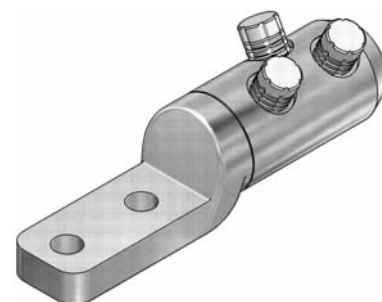
Description :

- Centered bore (**EUML 3** and **8**).
- Tapered edges.
- Lug of tinned aluminium alloy and screws of aluminium alloy.

Standards
IEC 61238-1 (Class A)
ANSI C119.4 (Class A)



EUML 1-2 H
EUML 2-2 H



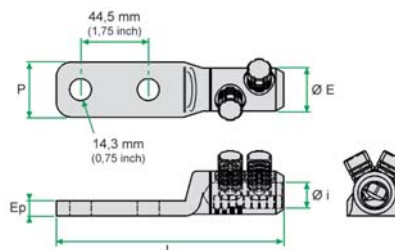
EUML 3-2 H
EUML 8-2 H



JTS 23 (M 16)
JTS 24 (M 18)



JTS 26 (M 16)
JTS 27 (M 18)



Réf.	Cable range Alu / Cu	P	Ep	L	Ø E	Ø i	Screws	
							Number	Ø (mm)
EUML 1-2 H	25 - 120 mm ² (# 2 - 250 kcmil)	36 mm (1.42 ")	10 mm (0.39 ")	149 mm (5.87 ")	28 mm (1.10 ")	16 mm (0.63 ")	2	M 16
EUML 2-2 H	50 - 240 mm ² (2/0 - 500 kcmil)	40 mm (1.57 ")	13 mm (0.51 ")	161 mm (6.34 ")	34 mm (1.34 ")	21 mm (0.83 ")		
EUML 3-2 H	240 - 500 mm ² (500 - 1 000 kcmil)	40 mm (1.57 ")	16 mm (0.63 ")	189 mm (7.44 ")	47 mm (1.85 ")	30 mm (1.18 ")	3	M 18
EUML 8-2 H	400 - 630 mm ² (800 mm ² solid) (800 - 1 250 kcmil)	45 mm (1.77 ")	18 mm (0.71 ")	191 mm (7.52 ")	51 mm (2.00 ")	34 mm (1.34 ")		



Mechanical termination lugs

ML 20 ... series

Mechanical termination lugs for connection of MV underground cables.

- These lugs are to be used for aluminium or copper circular stranded cables (XLPE cables).
- Maximum voltage : 36 kV
- Tightening of shear head screws, with a standard socket, manually or with an impact gun.
- The shear head breaking off occurs in the lug volume (not protruding more than 1.5 mm).

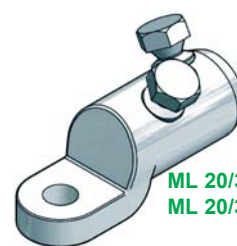
Description :

- Centred bore.
- Tapered edge.
- Body and screws of aluminium alloy.
- Reduced sizes, especially adapted to heat shrink and cold shrink terminations.

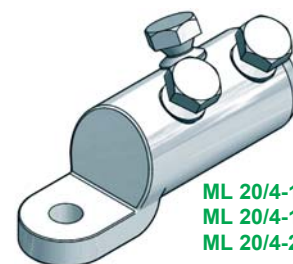
Standards
IEC 61238-1 (A class) ANSI C119.4



ML 20/1-12
ML 20/2-12



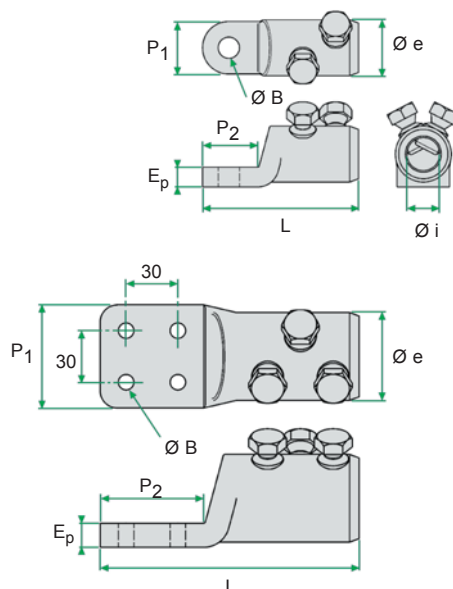
ML 20/3-12
ML 20/3-16



ML 20/4-12
ML 20/4-16
ML 20/4-20



ML 20/5-4 H






Ref.	Cable range Alu (mm ²)	Dimensions							Screws	
		Ø e (mm)	Ø i (mm)	Ø B (mm)	P1 (mm)	P2 (mm)	Ep (mm)	L (mm)	Number	H on flats (mm)
ML 20/1-12	25 - 95	25	13	13	25	26	10.5	66	1	13
ML 20/2-12	70 - 150	28	16	13	28	29.5	12	83	1	17
ML 20/3-12	120 - 240	34	20	13	34	35	14	100	2	17
ML 20/3-16				17						
ML 20/4-12 *	240 - 400	42	26	13	42	45	14	145	3	22
ML 20/4-16 *				17						
ML 20/4-20 *				21						
ML 20/5-4 H *	400 - 630	50	33	4 x 9	60	60	14	180	3	22

* Consult us.



Termination selection

Cable type	Termination type	Ref.	
		Indoor termination	Outdoor termination
Synthetic insulation single-core cable 	Cold shrink	E3UIRF ...	E3UERF ...
	Cold applied "push-on"		E3UEPO ...
Screened synthetic three-core cable 	Heat shrink	EUITH Tp ...	EUETH Tp ...
Belted synthetic three-core cable (without phase screening) 		EUITH TpC ...	EUETH TpC ...



Shielded one-core cable



Shielded three-core cable



Non shielded three-core cable



E3UIRF ... series

Set of 3 indoor cold-shrink single-core cable terminations with lugs.

Use :


- Single-core cables with synthetic insulation without armour and with copper wire shield.
- Cable range : 50 to 500 mm² (for other cable specifications and other voltage levels : contact us).
- For use in average pollution conditions.
- For heavy pollution conditions, contact us.

Principle :

- Stress control putty.
- Outer protection in silicone rubber : an unique cold shrink system for assembly on the cable.
- Lugs supplied.

Metallic tape shield cables without armour, use the grounding kit (add "K" to the reference).

Mechanical tightening lugs supplied



H 13
(25 - 95 mm²)

H 17
(70 - 150 mm²)
(120 - 240 mm²)

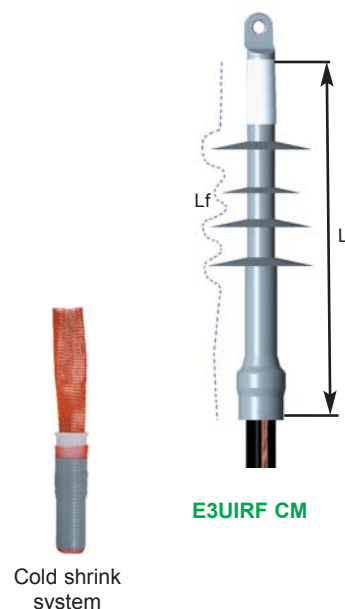
H 19
(240 - 400 mm²)

Standards

IEC 61238-1 (A class)
ANSI C119.4

Cold shrink single-core cable terminations 12 / 17.5 / 24 / 36 kV

Standards
Cables HD 620 IEC 60502-2
Terminations HD 629.1.S2 IEC 61442 IEC 60502-4



Ref.	Area (mm ²)	Ø Insulation (mm)	Ø Outer sheath (mm)	Rated voltage (kV)	L (mm)	Shed Number	Creepage distance Lf (mm)
E3UIRF 17,5 95-150 CM	95 - 150	19	40	6 / 10 (12) 8.7 / 15 (17.5)	285	2	385
E3UIRF 17,5 120-240 CM	120 - 240						
E3UIRF 17,5 300-400 CM *	300 - 400	27	60		310		400
E3UIRF 17,5 400-630 CM *	400 - 630						
E3UIRF 24 50-95 CM	50 - 95	19	40	12 / 20 (24)	285	2	385
E3UIRF 24 70-150 CM	70 - 150						
E3UIRF 24 120-240 CM	120 - 240	27	60		390	3	520
E3UIRF 24 240-400 CM *	240 - 400						
E3UIRF 24 400-630 CM *	400 - 630	19	40		320	4	505
E3UIRF 36 35-95 CM	35 - 95						
E3UIRF 36 70-150 CM	70 - 150	27	60	18 / 30 (36)	590	6	835
E3UIRF 36 120-240 CM *	120 - 240						
E3UIRF 36 240-400 CM *	240 - 400						
E3UIRF 36 400-630 CM *	400 - 630						

* Contact us.



E3UERF ... series

Set of 3 outdoor cold-shrink single-core cable terminations without lugs.

Use :


- Single-core cables with synthetic insulation without armour and with copper wire shield.
- Cable range : 50 to 500 mm² (for other cable specifications and other voltage levels : contact us).
- For use in average pollution conditions.
- For heavy pollution conditions, contact us.

Principle :

- Stress control putty.
- Outer protection in silicone rubber : an unique cold shrink system for assembly on the cable.
- Lugs not supplied.

Metallic tape shield cables without armour, use the grounding kit (add "K" to the reference).

Mechanical tightening lugs



H 13
(25 - 95 mm²)

H 17
(70 - 150 mm²)
(120 - 240 mm²)

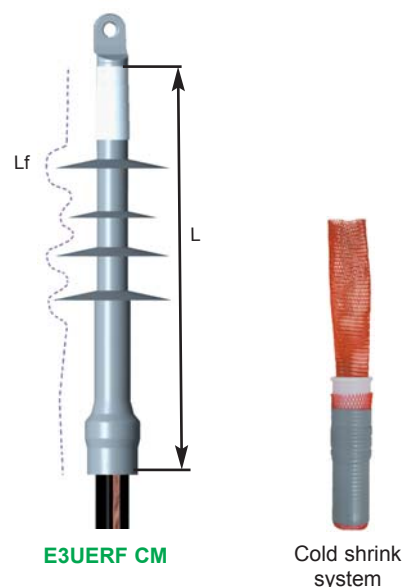
H 19
(240 - 400 mm²)

Standards

IEC 61238-1 (A class)
ANSI C119.4

Cold shrink single-core cable terminations 17.5 / 24 / 36 kV

Standards
Cables HD 620 IEC 60502-2
Terminations HD 629.1.S2 IEC 61442 IEC 60502-4



Ref.	Area	Ø Insulation	Ø Outer sheath	Rated voltage	L	Shed Number	Creepage distance
	(mm²)	(mm)	(mm)	(kV)	(mm)		Lf (mm)
E3UERF 17,5 95-150 CM	95 - 150	19	40	6 / 10 (12)	285	2	385
E3UERF 17,5 120-240 CM	120 - 240			8.7 / 15 (17.5)	390	3	520
E3UERF 17,5 300-400 CM*	300 - 400	27	60				
E3UERF 17,5 400-630 CM*	400 - 630			12 / 20 (24)	590	6	835
E3UERF 24 50-95 CM	50 - 95	19	40				
E3UERF 24 70-150 CM	70 - 150			27	60	670	7
E3UERF 24 120-240 CM	120 - 240	18 / 30 (36)	60				
E3UERF 24 240-400 CM*	240 - 400			27	60	60	60
E3UERF 24 400-630 CM*	400 - 630	19	40				
E3UERF 36 35-95 CM	35 - 95			27	60	670	7
E3UERF 36 70-150 CM	70 - 150	18 / 30 (36)	60				
E3UERF 36 120-240 CM*	120 - 240			27	60	670	7
E3UERF 36 240-400 CM*	240 - 400	19	40				
E3UERF 36 400-630 CM*	400 - 630			27	60	670	7

* Contact us.



E3UEPO ... series

Set of 3 outdoor applied “push-on” single-core cable terminations without lugs.

Use :

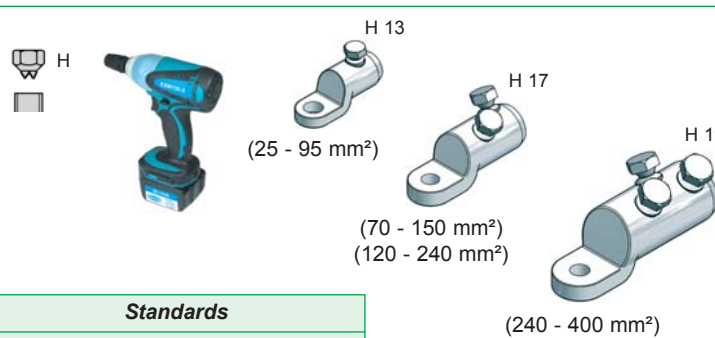
- Single-core cables with synthetic insulation without armour and with copper wire shield.
- Cable range : 50 to 500 mm² (for other cable specifications and other voltage levels : contact us).

Principle :

- Stress control mastic.
- Outer protection in silicone rubber, push-on at room temperature without tool.
- **Lugs not supplied.**

Single-core metallic tape shield cables without armour, use the grounding kit (add “K” to the reference).

Mechanical tightening lugs



H 13
(25 - 95 mm²)

H 17
(70 - 150 mm²)
(120 - 240 mm²)

H 19
(240 - 400 mm²)

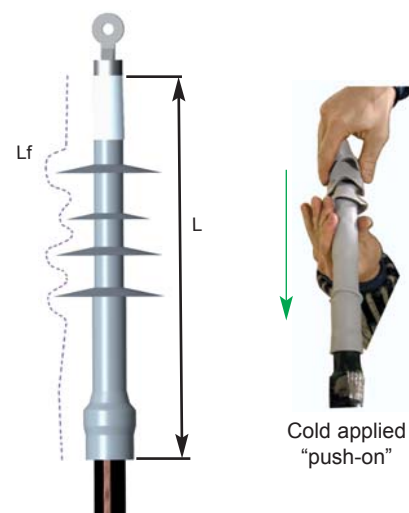
Standards

IEC 61238-1 (A class)
ANSI C119.4

Cold applied “push-on”
single-core cable terminations

17.5 / 24 / 36 kV

Standards
Cables HD 620 IEC 60502-2
Terminations HD 629.1.S2 IEC 61442 IEC 60502-4



Ref.	Area (mm ²)	Ø Insulation (mm)	Ø Outer sheath (mm)	Rated voltage (kV)	L (mm)	Shed Number	Creepage distance Lf (mm)
E3UEPO 17,5 95-150 CM	95 - 150	19	40	6 / 10 (12) 8.7 / 15 (17.5)	285	2	385
E3UEPO 17,5 120-240 CM	120 - 240						
E3UEPO 17,5 300-400 CM*	300 - 400						
E3UEPO 17,5 400-630 CM*	400 - 630	27	60	12 / 20 (24)	390	3	520
E3UEPO 24 50-95 CM	50 - 95						
E3UEPO 24 70-150 CM	70 - 150						
E3UEPO 24 120-240 CM	120 - 240	19	40	18 / 30 (36)	320	4	505
E3UEPO 24 240-400 CM*	240 - 400						
E3UEPO 24 400-630 CM*	400 - 630						
E3UEPO 36 35-95 CM	35 - 95	27	60		590	6	835
E3UEPO 36 70-150 CM	70 - 150						
E3UEPO 36 120-240 CM*	120 - 240						
E3UEPO 36 240-400 CM*	240 - 400	19	40		440	6	690
E3UEPO 36 400-630 CM*	400 - 630						
E3UEPO 36 120-240 CM*	120 - 240	27	60		670	7	960
E3UEPO 36 240-400 CM*	240 - 400						
E3UEPO 36 400-630 CM*	400 - 630						

* Contact us.



EUITH Tp ... series



Indoor heat shrink three-core cable terminations without lugs.

Use :

Three-core screened cables with synthetic insulation.

- Three-core cables with copper wire shield, with or without armour.
- Three-core cables with metallic tape shield, with or without armour : use the grounding kit (Add "K" to the reference).
- Cable range : 25 to 300 mm² (for other cable specifications and other voltage levels : contact us).



Principle :

- Stress control tube.
- Tracking resistant heat shrink materials.
- Lugs not supplied.

<i>Ref.</i>	<i>Area</i> <i>(mm²)</i>	<i>L</i> <i>(mm)</i>	<i>Rated voltage</i> <i>(kV)</i>
EUITH Tp12 25-95 CM 450	25 - 95	450	6 / 10 (12)
EUITH Tp12 70-150 CM 450	70 - 150		
EUITH Tp12 120-240 CM 450	120 - 240		
EUITH Tp12 25-95 CM 850	25 - 95	850	
EUITH Tp12 70-150 CM 850	70 - 150		
EUITH Tp12 120-240 CM 850	120 - 240		
EUITH Tp12 25-95 CM 1200	25 - 95	1 200	
EUITH Tp12 70-150 CM 1200	70 - 150		
EUITH Tp12 120-240 CM 1200	120 - 240		
EUITH Tp17,5 25-95 CM 450	25 - 95	450	8.7 / 15 (17.5)
EUITH Tp17,5 70-150 CM 450	70 - 150		
EUITH Tp17,5 120-240 CM 450	120 - 240		
EUITH Tp17,5 25-95 CM 850	25 - 95	850	
EUITH Tp17,5 70-150 CM 850	70 - 150		
EUITH Tp17,5 120-240 CM 850	120 - 240		
EUITH Tp17,5 25-95 CM 1200	25 - 95	1 200	
EUITH Tp17,5 70-150 CM 1200	70 - 150		
EUITH Tp17,5 120-240 CM 1200	120 - 240		
EUITH Tp24 25-95 CM 450	25 - 95	450	12 / 20 (24)
EUITH Tp24 70-150 CM 450	70 - 150		
EUITH Tp24 120-240 CM 450	120 - 240		
EUITH Tp24 25-95 CM 850	25 - 95	850	
EUITH Tp24 70-150 CM 850	70 - 150		
EUITH Tp24 120-240 CM 850	120 - 240		
EUITH Tp24 25-95 CM 1500	25 - 95	1 500	
EUITH Tp24 70-150 CM 1500	70 - 150		
EUITH Tp24 120-240 CM 1500	120 - 240		
EUITH Tp36 25-95 CM 650	25 - 95	650	18 / 30 (36)
EUITH Tp36 70-150 CM 650	70 - 150		
EUITH Tp36 120-240 CM 650	120 - 240		
EUITH Tp36 25-95 CM 1200	25 - 95	1 200	
EUITH Tp36 70-150 CM 1200	70 - 150		
EUITH Tp 36 120-240 CM 1200	120 - 24		
EUITH Tp36 25-95 CM 1500	25 - 95	1 500	
EUITH Tp36 70-150 CM 1500	70 - 150		
EUITH Tp36 120-240 1500	120 - 240		

Heat shrink three-core cable terminations 12 / 17.5 / 24 / 36 kV

Standards

Cables
IEC 502

Terminations
HD 629.1.S2
IEC 61442
IEC 60502-4

Mechanical tightening lugs supplied

Standards

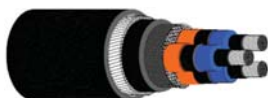
IEC 61238-1 (Class A)
ANSI C119.4



With grounding kit



EUETH Tp ... series



Outdoor heat shrink three-core cable terminations without lugs.

Use :

Three-core screened cables with synthetic insulation.

- Three-core cables with copper wire shield, with or without armour.
- Three-core cables with metallic tape shield, with or without armour : use the grounding kit (Add "K" to the reference).
- Cable range : 25 to 300 mm² (for other cable specifications and other voltage levels : contact us).

Principle :

- Stress control tube.
- Tracking resistant heat shrink materials.
- **Lugs not supplied.**



Ref.	Area (mm ²)	L (mm)	Creepage distance Lf (mm)	Rated voltage (kV)
EUETH Tp12 25-95 CM 450	25 - 95			
EUETH Tp12 70-150 CM 450	70 - 150	450	520	
EUETH Tp12 120-240 CM 450	120 - 240			
EUETH Tp12 25-95 CM 850	25 - 95			
EUETH Tp12 70-150 CM 850	70 - 150	850	920	6 / 10 (12)
EUETH Tp12 120-240 CM 850	120 - 240			
EUETH Tp12 25-95 CM 1200	25 - 95			
EUETH Tp12 70-150 CM 1200	70 - 150	1 200	1 270	
EUETH Tp12 120-240 CM 1200	120 - 240			
EUETH Tp17,5 25-95 CM 450	25 - 95			
EUETH Tp17,5 70-150 CM 450	70 - 150	450	590	
EUETH Tp17,5 120-240 CM 450	120 - 240			
EUETH Tp17,5 25-95 CM 850	25 - 95			
EUETH Tp17,5 70-150 CM 850	70 - 150	850	990	8.7 / 15 (17.5)
EUETH Tp17,5 120-240 CM 850	120 - 240			
EUETH Tp17,5 25-95 CM 1200	25 - 95			
EUETH Tp17,5 70-150 CM 1200	70 - 150	1 200	1 340	
EUETH Tp17,5 120-240 CM 1200	120 - 240			
EUETH Tp24 25-95 CM 450	25 - 95			
EUETH Tp24 70-150 CM 450	70 - 150	450	590	
EUETH Tp24 120-240 CM 450	120 - 240			
EUETH Tp24 25-95 CM 850	25 - 95			
EUETH Tp24 70-150 CM 850	70 - 150	850	990	12 / 20 (24)
EUETH Tp24 120-240 CM 850	120 - 240			
EUETH Tp24 25-95 CM 1500	25 - 95			
EUETH Tp24 70-150 CM 1500	70 - 150	1 500	1 640	
EUETH Tp24 120-240 CM 1500	120 - 240			
EUETH Tp36 25-95 CM 650	25 - 95			
EUETH Tp36 70-150 CM 650	70 - 150	650	930	
EUETH Tp36 120-240 CM 650	120 - 240			
EUETH Tp36 25-95 CM 1200	25 - 95			
EUETH Tp36 70-150 CM 1200	70 - 150	1 200	1 480	18 / 30 (36)
EUETH Tp36 120-240 CM 1200	120 - 240			
EUETH Tp36 25-95 CM 1500	25 - 95			
EUETH Tp36 70-150 CM 1500	70 - 150	1 500	1 780	
EUETH Tp36 120-240 CM 1500	120 - 240			

Heat shrink three-core cable terminations

12 / 17.5 / 24 / 36 kV

Standards

Cables
IEC 502

Terminations
HD 629.1.S2
IEC 61442
IEC 60502-4

Mechanical tightening lugs supplied

Standards

IEC 61238-1 (Class A)
ANSI C119.4



(25 - 95 mm²)

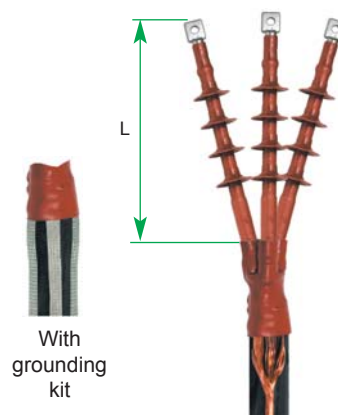
(70 - 150 mm²)
(120 - 240 mm²)



EUETH Tp12 ...

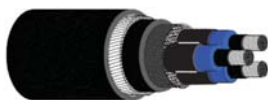


EUETH Tp17.5 ...
EUETH Tp24 ...



With
grounding
kit

EUETH Tp36 ...



Heat shrink
three-core cable terminations

12 kV

EUITH TpC ... series EUETH TpC ... series

Indoor or outdoor three-core heat shrink terminations without lugs.

Use :

- Three-core unscreened belted synthetic insulation cables with armour.
- Cable range : 25 to 300 mm² (for other cable specifications and other voltage levels : contact us).

Principle :

- Tracking resistant heat shrink outer materials.
- Lugs not supplied.



Standards

Cables

IEC 502

Terminations

HD 629.1.S2

IEC 61442

IEC 60502-4

Indoor terminations

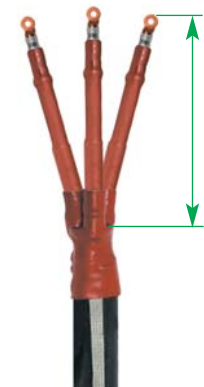
Ref.	Area (mm ²)	L (mm)
EUITH TpC12 25-95 CM 450	25 - 95	450
EUITH TpC12 70-150 CM 450	70 - 150	
EUITH TpC12 120-240 CM 450	120 - 240	
EUITH TpC12 25-95 CM 850	25 - 95	850
EUITH TpC12 70-150 CM 850	70 - 150	
EUITH TpC12 120-240 CM 850	120 - 240	
EUITH TpC12 25-95 CM 1200	25 - 95	1 200
EUITH TpC12 70-150 CM 1200	70 - 150	
EUITH TpC12 120-240 CM 1200	120 - 240	

Mechanical tightening lugs supplied

Standards

IEC 61238-1 (Class A)

ANSI C119.4



EUITH TpC12 ...



EUETH TpC12 ...

Outdoor terminations

Ref.	Area (mm ²)	L (mm)	Creepage distance Lf (mm)
EUETH TpC12 25-95 CM 450	25 - 95	450	520
EUETH TpC12 70-150 CM 450	70 - 150		
EUETH TpC12 120-240 CM 450	120 - 240		
EUETH TpC12 25-95 CM 850	25 - 95	850	920
EUETH TpC12 70-150 CM 850	70 - 150		
EUETH TpC12 120-240 CM 850	120 - 240		
EUETH TpC12 25-95 CM 1200	25 - 95	1 200	1 270
EUETH TpC12 70-150 CM 1200	70 - 150		
EUETH TpC12 120-240 CM 1200	120 - 240		



Mechanical splicing connectors

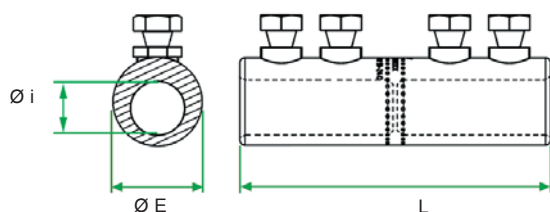
MF 15 ... series

Splicing connectors for use in MV underground joints.

- Connectors to be used for aluminium or copper round or sectoral cables, stranded or solid (XLPE or paper cables).
- Maximum voltage : 42 kV
- Tightening of shear head screws with standard socket, manually or with impact gun.
- The shear head breaking off occurs in the connector volume (not protruding more than 1.5 mm) in order to reduce electrical stress.
- No need of conductor brushing or greasing.

Description :

- Off-centred bore.
- For cables from 50 to 150 mm², using centering wedges.
- Aluminium alloy body and tin plated brass screws.
- Moisture block barrier in the center.



MF 15 EAU



MF 15 SEAU



MF 15 D



MF 15 DS








H 17



H 16



H 17

Ref.	Cable type	Area Alu / Cu (mm²)	Centering wedges for areas (mm²)	H on flats (mm)	L (mm)	Ø E (mm)	Ø i (mm)
MF 15 EAU		50 - 240	50 - 95 - 150	16	120	34	20.8
MF 15 SEAU							
MF 15 D		95 - 240	95 - 120 - 150	17			
MF 15 DS		70 - 240	70 - 95 - 120 - 150				
RJSM AU 95 - 300*		95 - 300	95 - 120 - 150 - 185	—	140	37	24

* Contact us.



Mechanical splicing connectors

USMF .. series

MF .. series

Standards

BS 4579 : Part 3
ANSI C119.4 (class A)

Splicing connectors for use in MV underground joints.

- Connectors to be used for aluminium or copper circular stranded cables (XLPE, EPR or PILC).
- Maximum voltage : 42 kV
- Tightening of shear head screws :
 - manually with **JTS 16** wrench.
 - with an impact gun equipped with **JTS 9** wrench.
- Thanks to patented design, the shear head breaking off always occurs inside the connector body (never protruding), in order to reduce electrical stress, for all conductor dimensions, and covers a large range of sections.

Description :

- Centered bore (**USMF 3** and **8**).
- Tapered edges (**USMF**).
- Body of tinned aluminium alloy and screws of aluminium alloy.
- Moisture block barrier in the center.



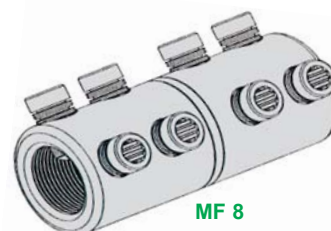
USMF 1



USMF 2

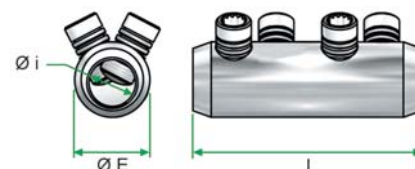


USMF 3
USMF 8



MF 8

Ref.	Cable range Alu / Cu	L	Ø E	Ø i	Screws	
					Number	Ø (mm)
USMF 1	25 - 120 mm ² (# 2 - 250 kcmil)	101 mm (3.98 ")	28 mm (1.10 ")	16 mm (0.63 ")	2 x 2	M 16
USMF 2	50 - 240 mm ² (2/0 - 500 kcmil)	111 mm (4.37 ")	34 mm (1.34 ")	21 mm (0.83 ")		
USMF 3	240 - 500 mm ² (500 - 1 000 kcmil)	155 mm (6.10 ")	47 mm (1.85 ")	30 mm (1.18 ")	2 x 3	M 18
USMF 8	400 - 630 mm ² (800 - 1 250 kcmil)	155 mm (6.10 ")	51 mm (2.00 ")	34 mm (1.34 ")		
MF 8	800 - 1 000 mm ² (1 550 - 1 950 kcmil)	173 mm (6.81 ")	64 mm (2.52 ")	43 mm (1.69 ")	2 x 4	M 18





Mechanical splicing connectors

EUMF .. series

Splicing connectors for use in MV underground joints.

- Connectors to be used for aluminium or copper circular stranded cables (XLPE, EPR or PILC).
- Maximum voltage : 42 kV
- Tightening of shear head screws :
 - manually with **JTS 31 / 24** wrench.
 - with an impact gun equipped with **JTS 32 / 27** wrench.
- Thanks to patented design, the shear head breaking off always occurs inside the connector body (never protruding), in order to reduce electrical stress, for all conductor dimensions, and covers a large range of sections.

Standards

IEC 61238-1 (Class A)
ANSI C119.4 (Class A)



EUMF 0



EUMF 1
EUMF 2



EUMF 2.5
EUMF 3
EUMF 8



EUMF 9

Description :

- Centered bore (**EUMF 3, 8, 9**).
- Tapered edges.
- Body of tinned aluminium alloy and screws of aluminium alloy.
- Moisture block barrier in the center.
- On request : core centered in the connector.

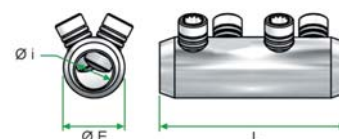


JTS 31 (M 12)
JTS 24 (M 18)



JTS 32 (M 12)
JTS 27 (M 18)

Ref.	Cable range Alu / Cu	L	Ø E	Ø i	Screws	
					Number	Ø (mm)
EUMF 0	16 - 95 mm ² (# 4 - 3/0 kcmil)	60 mm (2.36 ")	25 mm (0.98 ")	13 mm (0.51 ")	2 x 1	M 12
EUMF 1	35 - 150 mm ² (# 2 - 250 kcmil)	85 mm (3.35 ")	28 mm (1.10 ")	16 mm (0.63 ")	2 x 2	M 12
EUMF 2	50 - 240 mm ² (2/0 - 500 kcmil)	125 mm (4.92 ")	34 mm (1.34 ")	21 mm (0.83 ")	2 x 2	M 18
EUMF 2.5	95 - 400 mm ² (4/0 - 800 kcmil)	165 mm (6.5 ")	42 mm (1.65 ")	26 mm (1.02 ")	2 x 3	M 18
EUMF 3	240 - 500 mm ² (500 - 1 000 kcmil)	175 mm (6.89 ")	47 mm (1.85 ")	30 mm (1.18 ")		
EUMF 8	400 - 630 mm ² (800 mm ² solid) (800 - 1 250 kcmil)	175 mm (6.89 ")	51 mm (2.00 ")	34 mm (1.34 ")		
EUMF 9	800 - 1 000 mm ² (1 550 - 1 950 kcmil)	189 mm (7.44 ")	63 mm (2.48 ")	43 mm (1.69 ")	2 x 4	M 18





Mechanical splicing connectors

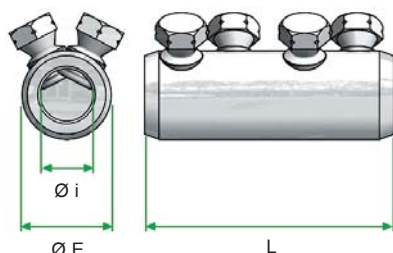
MF 20 .. series

Splicing connectors for use in MV underground joints.

- Connectors to be used for aluminium or copper circular stranded cables (XLPE cables).
- Maximum voltage : 42 kV
- Tightening of shear head screws with a standard socket, manually or with an impact gun.
- The shear head breaking off occurs in the connector volume (not protruding more than 1.5 mm), in order to reduce electrical stress.

Description :

- Centred bore.
- Tapered edges.
- Body and screws of aluminium alloy.
- Moisture block barrier in the center.
- Reduced sizes, especially adapted to heat shrink and cold shrink joints.



MF 20/1
MF 20/2









MF 20/1-2
MF 20/2-2
MF 20/3



MF 20/4
MF 20/5

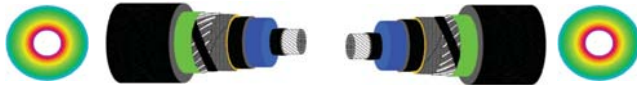
Ref.	Use	Cross section range Alu / Cu (mm ²)	L (mm)	Ø E (mm)	Ø i (mm)	Screws	
						Number	H on flats (mm)
MF 20/1	Splicing	25 - 95	55	25	13	2 x 1	13
MF 20/1-2		25 - 95	80	25	13	2 x 2	
MF 20/2		70 - 150	80	28	16	1 x 2	
MF 20/2-2		70 - 150	90	25	16	2 x 2	17
MF 20/3		120 - 240	100	34	20		
MF 20/4 *		240 - 400	170	42	26	2 x 3	22
MF 20/5 *		400 - 630	200	50	33		

* Contact us.

Ref.	Cross section range mm ²					
	Alu				Cu	
	RM 	RE 	SM 	SE 	RM 	SM 
MF 20/1	25 - 95	25 - 95	25 - 70 (95)		25 - 95	25 - 70 (95)
MF 20/1-2	25 - 95	25 - 95	25 - 70 (95)		25 - 95	25 - 70 (95)
MF 20/2	70 - 150	70 - 150	70 - 120 (150)	70 - 120	70 - 150	70 - 120 (150)
MF 20/2-2	70 - 150	70 - 150	70 - 120 (150)		70 - 150	70 - 120 (150)
MF 20/3	120 - 240	120 - 240	120 - 185 (240)	120 - 185	120 - 240	120 - 185 (240)
MF 20/4	240 - 400	240 - 400	240 - 300 (400)	240 - 300	240 - 400	240 - 300 (400)
MF 20/5	400 - 630	400 - 630	400 - 630		400 - 630	400 - 630

(x) Rounded conductor.





Heat shrink single-core cable joints 12 / 17.5 / 24 / 36 kV

JUPTH ... series

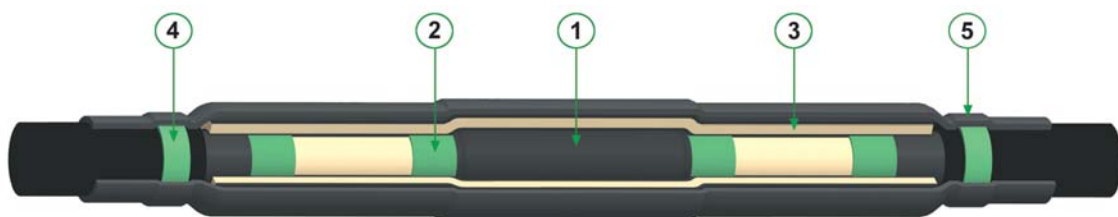
Single-core heat-shrink prefabricated joint.

Use :

- Single-core synthetic insulation cables with copper wire or tape screen, with or without armour.
 - **JUPTH ...** : Cables with copper wire screen, without armour.
 - **JUPTH ... K** : Cables with copper wire or tape screen, without armour.
 - **JUPTH ... A** : Cables with copper wire or tape screen, with armour.
- Cable range : 25 to 630 mm² (for other cable specifications and other voltage levels : contact us).

Principle :

- Electrical field distribution putty.
- High voltage heat shrink insulation tubing with three-layer technology including electrical stress control.
- Heat shrink outer jacket.
- Metal screen for cable screen continuity.
- Mechanical connectors supplied or not supplied according to references.

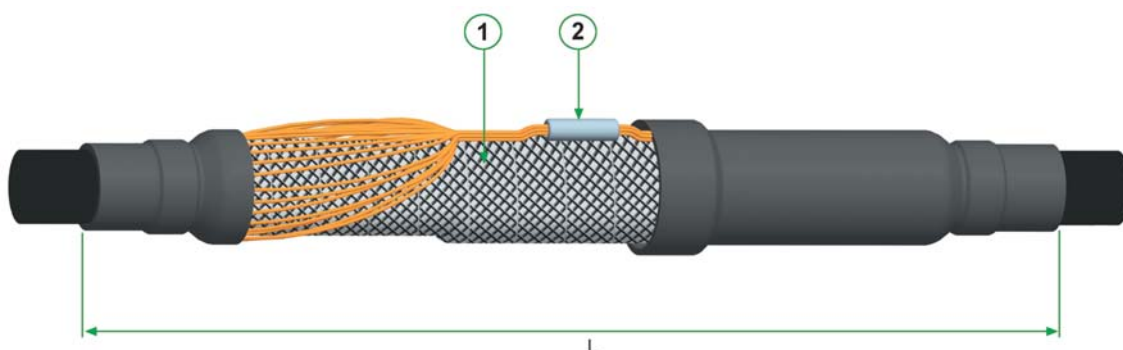


- ① Conductive tube.
- ② Stress control putty.
- ③ Three-layer tube.
- ④ Sealing putty.
- ⑤ Protective tube.

Standards
Cables HD 620 IEC 60502-2
Joints HD 629.1.S2 IEC 61442 IEC 60502-4



Single-core cable joint without connectors
for copper wire screen cables, without armour.



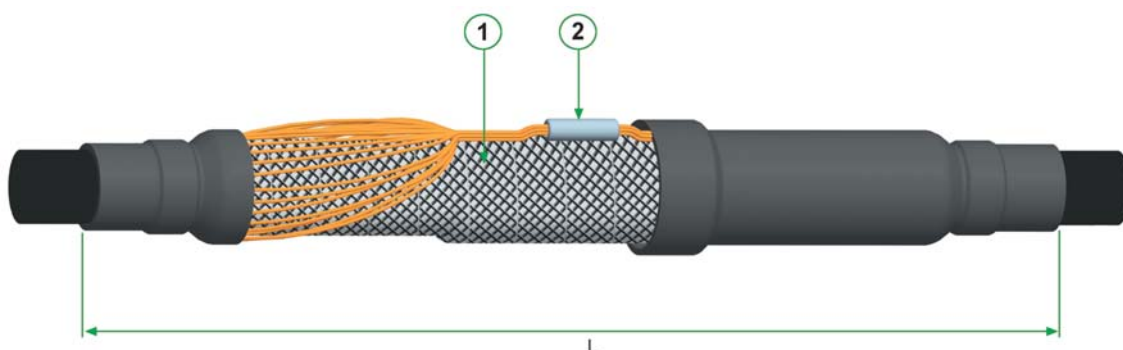
Screen continuity made with the screen wires and a screen connector.

- ① Copper mesh.
- ② Screen connector (not supplied)

Ref.	Area (mm ²)	Rated voltage (kV)	L (mm)
JUPTH 12 25-95	25 - 95		500
JUPTH 12 70-240	70 - 240	6 / 10 (12)	550
JUPTH 12 150-300	150 - 300	6.35 / 11 (12)	600
JUPTH 12 300-630	300 - 630		
JUPTH 17,5 25-95	25 - 95		500
JUPTH 17,5 70-240	70 - 240	8.7 / 15 (17.5)	550
JUPTH 17,5 150-300	150 - 300		600
JUPTH 17,5 300-630	300 - 630		
JUPTH 24 25-95	25 - 95		550
JUPTH 24 70-240	70 - 240	12 / 20 (24)	650
JUPTH 24 150-300	150 - 300	12.7 / 22 (24)	600
JUPTH 24 300-630	300 - 630		
JUPTH 36 25-95	25 - 95		550
JUPTH 36 70-240	70 - 240	18 / 30 (36)	600
JUPTH 36 150-300	150 - 300	19 / 33 (36)	650
JUPTH 36 300-630	300 - 630		



Single-core cable joint with connectors
for copper wire screen cables, without armour.



Screen continuity made with the screen wires and a screen connector.
Screen section $\leq 50 \text{ mm}^2$.

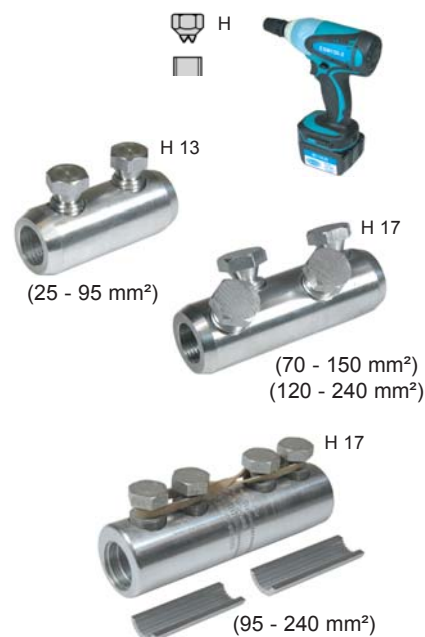
- ① Copper mesh.
- ② Screen connector (supplied).



Screen connector

Ref.	Area (mm ²)	Rated voltage (kV)	L (mm)
JUPTH 12 25-95 CM	25 - 95		500
JUPTH 12 70-150 CM	70 - 150	6 / 10 (12)	
JUPTH 12 120-240 CM	120 - 240	6.35 / 11 (12)	550
JUPTH 12 95-240 RSM	95 - 240		
JUPTH 17.5 25-95 CM	25 - 95		500
JUPTH 17,5 70-150 CM	70 - 150	8.7 / 15 (17.5)	
JUPTH 17,5 120-240 CM	120 - 240		550
JUPTH 17,5 95-240 RSM	95 - 240		
JUPTH 24 25-95 CM	25 - 95		500
JUPTH 24 70-150 CM	70 - 150	12 / 20 (24)	
JUPTH 24 120-240 CM	120 - 240	12.7 / 22 (24)	550
JUPTH 24 95-240 RSM	95 - 240		
JUPTH 36 25-95 CM	25 - 95		500
JUPTH 36 70-150 CM	70 - 150	18 / 30 (36)	
JUPTH 36 120-240 CM	120 - 240	19 / 33 (36)	550
JUPTH 36 95-240 RSM	95 - 240		

Mechanical connectors supplied

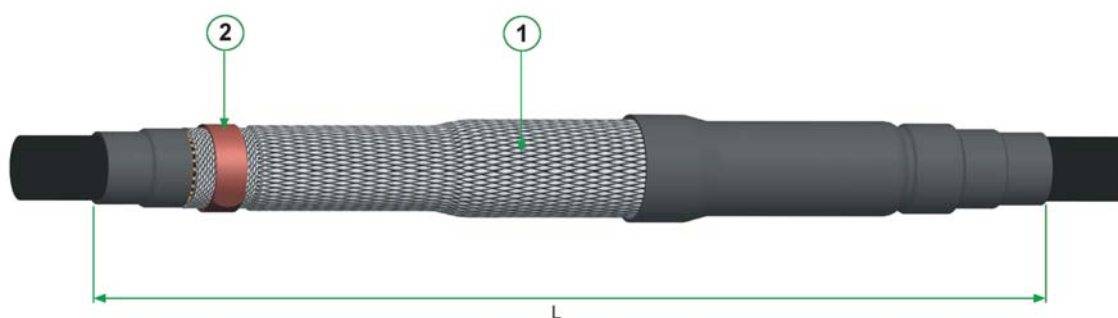


Standards

IEC 61238-1 (Class A)
ANSI 119-1



Single-core cable joint without connectors
for copper wire or tape screen cables, without armour.



Screen continuity made with a copper stocking and a constant force spring (CFS).

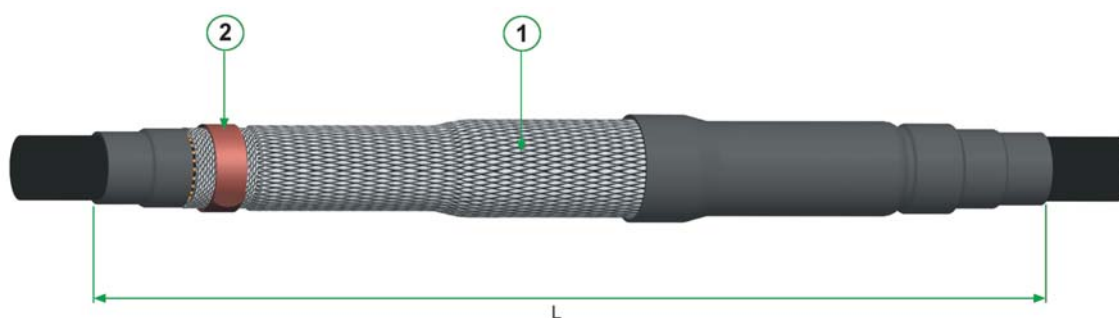
- Cables 25 to 240 mm² : Screen section ≤ 25 mm².
- Cables 300 to 630 mm² : Screen section ≤ 50 mm².

- ① Copper stocking.
- ② Constant force spring (supplied)

Ref.	Area (mm ²)	Rated voltage (kV)	L (mm)
JUPTH 12 25-95 K	25 - 95		600
JUPTH 12 70-240 K	70 - 240	6 / 10 (12)	700
JUPTH 12 150-300 K	150 - 300	6.35 - 11 (12)	750
JUPTH 12 300-630 K	300 - 630		750
JUPTH 17,5 25-95 K	25 - 95		600
JUPTH 17,5 70-240 K	70 - 240	8.7 / 15 (17.5)	700
JUPTH 17,5 150-300 K	150 - 300		750
JUPTH 17,5 300-630 K	300 - 630		750
JUPTH 24 25-95 K	25 - 95		600
JUPTH 24 70-240 K	70 - 240	12 / 20 (24)	700
JUPTH 24 150-300 K	150 - 300	12.7 / 22 (24)	750
JUPTH 24 300-630 K	300 - 630		750
JUPTH 36 25-95 K	25 - 95		700
JUPTH 36 70-240 K	70 - 240	18 / 30 (36)	750
JUPTH 36 150-300 K	150 - 300	16 / 33 (36)	750
JUPTH 36 300-630 K	300 - 630		750



Single-core cable joint with connectors
for copper wire or tape screen cables, without armour.



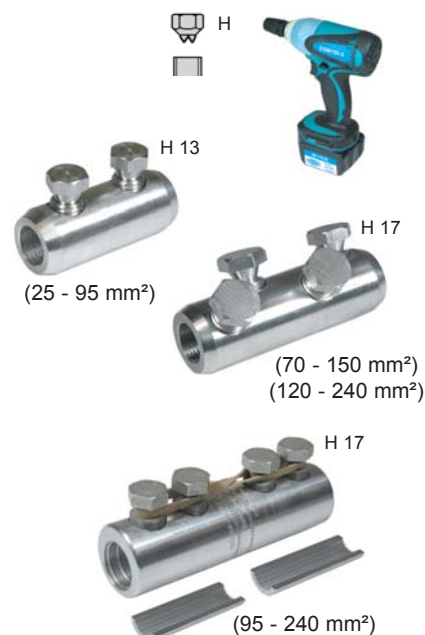
Screen continuity made with a copper stocking and a constant force spring (CFS).

- Cables 25 to 240 mm² : Screen section ≤ 25 mm².
- Cables 300 to 630 mm² : Screen section ≤ 50 mm².

- ① Copper stocking.
- ② Constant force spring (supplied).

Ref.	Area (mm ²)	Rated voltage (kV)	L (mm)
JUPTH 12 25-95 K CM	25 - 95		500
JUPTH 12 70-150 K CM	70 - 150	6 / 10 (12)	550
JUPTH 12 120-240 K CM	120 - 240	6.35 / 11 (12)	600
JUPTH 12 95-240 K RSM	95 - 240		600
JUPTH 17.5 25-95 K CM	25 - 95		500
JUPTH 17.5 70-150 K CM	70 - 150	8.7 / 15 (17.5)	550
JUPTH 17.5 120-240 K CM	120 - 240		600
JUPTH 17.5 95-240 K RSM	95 - 240		600
JUPTH 24 25-95 K CM	25 - 95		550
JUPTH 24 70-150 K CM	70 - 150	12 / 20 (24)	600
JUPTH 24 120-240 K CM	120 - 240	12.7 / 22 (24)	600
JUPTH 24 95-240 K RSM	95 - 240		600
JUPTH 36 25-95 K CM	25 - 95		600
JUPTH 36 70-150 K CM	70 - 150	18 / 30 (36)	600
JUPTH 36 120-240 K CM	120 - 240	19 / 33 (36)	700
JUPTH 36 95-240 K RSM	95 - 240		700

Mechanical connectors supplied

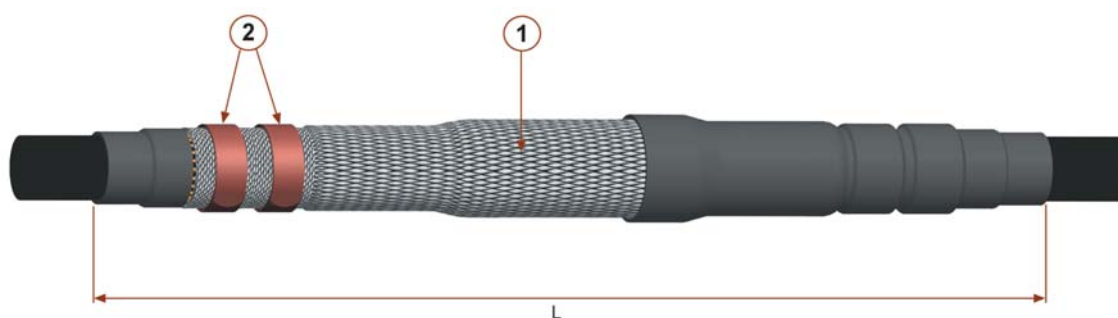
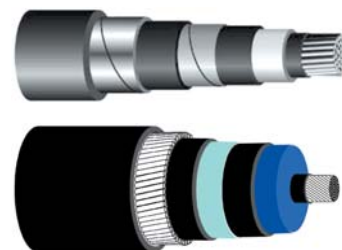


Standards

IEC 61238-1 (Class A)
ANSI 119-1



Single-core cable joint without connectors
for copper wire or tape screen cables, with armour.

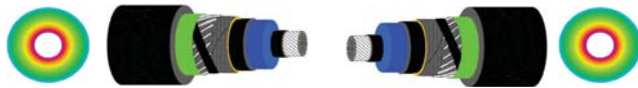


Screen and armour continuity made with a copper stocking and the constant force spring (CFS).

- Cables 25 to 240 mm² : Screen section ≤ 25 mm².
- Cables 300 to 630 mm² : Screen section ≤ 50 mm².

- ① Copper stocking.
- ② Constant force springs (supplied).

Ref.	Area (mm ²)	Rated voltage (kV)	L (mm)
JUPTH 12 70-240 A	70 - 240	6 / 10 (12)	700
JUPTH 12 300-630 A	300 - 630	6.35 / 11 (12)	800
JUPTH 17.5 70-240 A	70 - 240	8.7 / 15 (17.5)	700
JUPTH 17,5 300-630 A	300 - 630		800
JUPTH 24 70-240 A	70 - 240	12 / 20 (24)	800
JUPTH 24 300-630 A	300 - 630	12.7 / 22 (24)	850
JUPTH 36 70-240 A	70 - 240	18 / 30 (36)	800
JUPTH 36 300-630 A	300 - 630	19 / 33 (36)	850



Heat shrink single-core cable joints 12 / 17.5 / 24 / 36 kV

VSM.. series

Single-core heat-shrink prefabricated joint.

Use :

- Single-core VPE synthetic insulation cables according to **DIN VDE 0276-620** (e.g. N(A)2YSY, N(A)2XS(FL)2Y).
- Cable range : 25 to 630 mm².

Standards

Cables

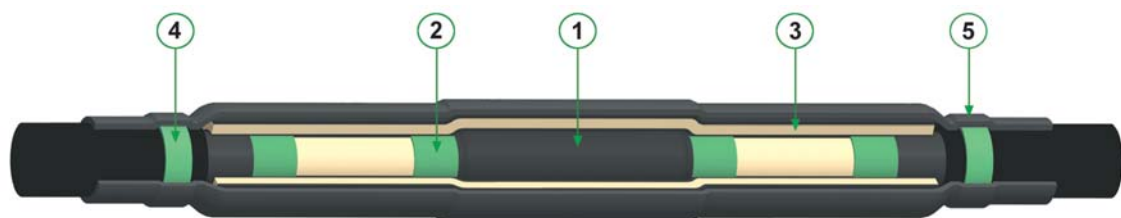
N(A)2YSY, N(A)2XS(FL)2Y
DIN VDE 0276-620

Joints

CENELEC HD 629.1

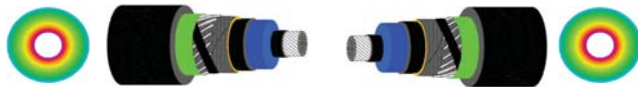
Composition :

- Electrical field distribution putty.
- High voltage heat shrink insulation tubing with three-layer technology including electrical stress control.
- Heat shrink outer jacket.
- Metal screen for cable screen continuity.
- Compatible with crimp and mechanical connectors.



- ① Conductive tube.
- ② Stress control putty.
- ③ Three-layer tube.
- ④ Sealing putty.
- ⑤ Protective tube.

Ref.	Cable range (mm ²)	Rated voltage (kV)	L (mm)
VSM 10	25 - 95	6 / 10 (12)	600
VSM 10	70 - 240	6 / 10 (12)	750
VSM 10	300 - 630	6 / 10 (12)	850
VSM 10 / 20	25 - 95	8.7 / 15 (17.5)	600
VSM 10 / 20	95 - 240	8.7 / 15 (17.5)	700
VSM 10 / 20	150 - 300	8.7 / 15 (17.5)	800
VSM 10 / 20	300 - 630	8.7 / 15 (17.5)	1000
VSM 20	25 - 95	12 / 20 (24)	700
VSM 20	70 - 240	12 / 20 (24)	750
VSM 20	300 - 630	12 / 20 (24)	1000
VSM 30	25 - 95	18 / 30 (36)	750
VSM 30	70 - 240	18 / 30 (36)	750
VSM 30	300 - 630	18 / 30 (36)	1000



Heat shrink
single-core cable joints

12 / 24 / 36 kV

VSM..-V.. series

Single-core heat-shrink prefabricated joint with screw connector.

Use :

- Single-core VPE synthetic insulation cables according to **DIN VDE 0276-620** (e.g. N(A)2YSY, N(A)2XS(FL)2Y).
- Cable range : 25 to 630 mm².

Standards

Cables

N(A)2YSY, N(A)2XS(FL)2Y
DIN VDE 0276-620

Joints

CENELEC HD 629.1

Composition :

- Electrical field distribution putty.
- High voltage heat shrink insulation tubing with three-layer technology including electrical stress control.
- Heat shrink outer jacket.
- Metal screen for cable screen continuity.
- Mechanical connectors supplied.



Screen connectors



Core connectors



Ref.	Cable range (mm ²)	Rated voltage (kV)
VSM 10-V 25-95	25 - 95	6 / 10 (12)
VSM 10-V 95-240	95 - 240	6 / 10 (12)
VSM 10-V 240-400	240 - 400	6 / 10 (12)
VSM 10-V 400-630	400 - 630	6 / 10 (12)
VSM 20-V 25-95	25 - 95	12 / 20 (24)
VSM 20-V 95-240	95 - 240	12 / 20 (24)
VSM 20-V 240-400	240 - 400	12 / 20 (24)
VSM 20-V 400-630	400 - 630	12 / 20 (24)
VSM 30-V 25-95	25 - 95	18 / 30 (36)
VSM 30-V 95-240	95 - 240	18 / 30 (36)
VSM 30-V 240-400	240 - 400	18 / 30 (36)
VSM 30-V 400-630	400 - 630	18 / 30 (36)



Heat shrink transition joints 12 kV

VSM-U-G. series

Heat-shrink prefabricated transition joint with screw connector.

Use :

- Connection from paper-insulated belted cables according to **DIN VDE 0276-621** (e.g. N(A)KBA, N(A)KBY) to single-core VPE synthetic insulation cables according to **DIN VDE 0276-620** (e.g. N(A)2YSY, N(A)2XS(FL)2Y).
- Cable range : 25 to 240 mm².

Composition :

- Electrical field distribution putty.
- High voltage heat shrink insulation tubing with three-layer technology including electrical stress control.
- Heat shrink outer jacket.
- Copper mesh for cable screen continuity.
- Compatible with crimp and screw connectors.
- Mechanical connector supplied.

Standards

Cables

N(A)KBA, N(A)KBY
DIN VDE 0276-621

N(A)2YSY, N(A)2XS(FL)2Y
DIN VDE 0276-620

Joints

CENELEC HD 629.2

MF 15 DS



Ref.	Cable range (mm ²)	Rated voltage (kV)
VSM-Ü-G 10-V 25-95	25 - 95	6 / 10 (12)
VSM-Ü-G 10-V 70-240	70 - 240	



Heat shrink
transition joints

24 / 36 kV

VSM-U-H.. series

Heat-shrink prefabricated transition joint with screw connector.

Use :

- Connection from paper-insulated screened cables (Hoechstaedter, H-Kabel, N(A)HKBA, N(A)HKBY) to single-core VPE synthetic insulation cables according to **DIN VDE 0276-620** (e.g. N(A)2YSY, N(A)2XS(FL)2Y).
- Cable range : 25 to 240 mm².

Composition :

- Electrical field distribution putty.
- High voltage heat shrink insulation tubing with three-layer technology including electrical stress control.
- Heat shrink outer jacket.
- Copper mesh for cable screen continuity.
- Compatible with crimp and screw connectors.
- Mechanical connector supplied.

Standards

Cables

N(A)HKBA, N(A)HKBY

N(A)2YSY, N(A)2XS(FL)2Y
DIN VDE 0276-620

Joints

CENELEC HD 629.2

MF 15 DS



Ref.	Cable range (mm ²)	Rated voltage (kV)
VSM-Ü-H 20-V 25-95	25 - 95	12 / 20 (24)
VSM-Ü-H 20-V 70-240	70 - 240	
VSM-Ü-H 30-V 25-95	25 - 95	18 / 30 (36)
VSM-Ü-H 30-V 70-240	70 - 240	



Heat shrink
transition joints

12 / 24 / 36 kV

VSM-U-3PB.. series

Heat-shrink prefabricated transition joint with screw connector.

Use :

- Connection from paper-insulated three-core single lead sheath cables (e.g. N(A)EKEBA, N(A)EKEBY, N(A)EKBA) according to **DIN VDE 0276-621** to single-core VPE synthetic insulation cables according to **DIN VDE 0276-620** (e.g. N(A)2YSY, N(A)2XS(FL)2Y).
- Cable range : 25 to 240 mm².

Composition :

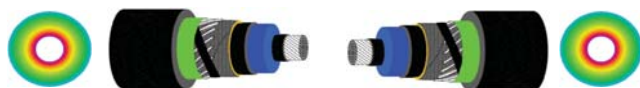
- Electrical field distribution putty.
- High voltage heat shrink insulation tubing with three-layer technology including electrical stress control.
- Heat shrink outer jacket.
- Copper mesh for cable screen continuity.
- Mechanical connector supplied

Standards
Cables N(A)EKEBA, N(A)EKEBY, N(A)EKEBA DIN VDE 0276-621 N(A)2YSY, N(A)2XS(FL)2Y DIN VDE 0276-620
Joints CENELEC HD 629.2

MF 15 DS



Ref.	Cable range (mm ²)	Rated voltage (kV)
VSM-Ü-3PB 10-V 25-95	25 - 95	6 / 10 (12)
VSM-Ü-3PB 10-V 70-240	25 - 95	
VSM-Ü-3PB 20-V 25-95	25 - 95	12 / 20 (24)
VSM-Ü-3PB 20-V 70-240	70 - 240	
VSM-Ü-3PB 30-V 25-95	25 - 95	18 / 30 (36)
VSM-Ü-3PB 30-V 70-240	70 - 240	



Cold shrink
single-core cable joints

12 / 17.5 / 24 / 36 kV







JUPRF ... series

Prefabricated cold shrink single-core cable joint with connectors.

- Kit to be used with single-core synthetic insulation cables without armour.
- Cable range : 50 to 630 mm².
- Assembly made of multi-layer bodies with integrated wire shield, screen continuity and outer protection.
Joint factory expanded, with "ZIP" for centering and two separable cones. Assembly of the cable without tool is very easy and automatic.
- **Mechanical conductor connectors (see selection guide).** Tightening of shear head screws : manually or with an impact gun.



Selection guide of mechanical conductor connectors which can be supplied with the splice.

CM Compact connectors (Reduced square section)	MF Universal screw connectors with tool (Extended square section)	RSM Connectors with centering wedges (Extended square section)
 H 13 (25 - 95 mm ²)	 #2 - 2/0 (35 - 70 mm ²) 3/0 - 500 kcmil (95 - 240 mm ²)	 H 17 (95 - 240 mm ²)
 H 17 (120 - 240 mm ²)	 350 kcmil - 750 kcmil (185 - 400 mm ²) 500 kcmil - 1000 kcmil (240 - 500 mm ²)	 H 19 (240 - 400 mm ²) (400 - 630 mm ²)

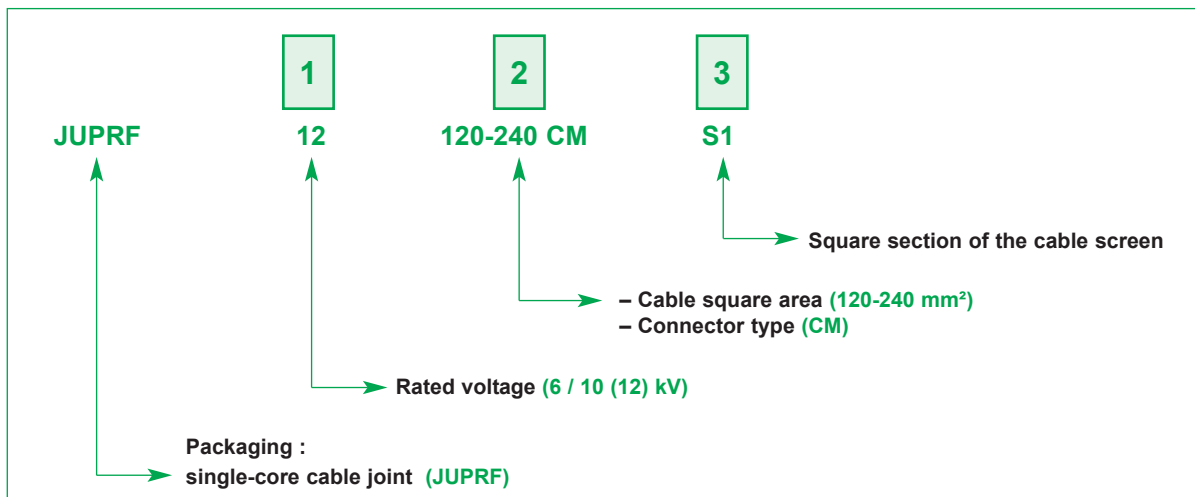


Reference composition

1	2	3
Rated voltage (kV)	Area (mm ²) Connector type	Square section of cable screen (mm ²)
12 6 / 10 (12) 6.35 / 11 (12)	50 - 95 120 - 240 300 - 400 500 - 630 CM	S 1 ≤ 35 mm ² S 2 ≥ 50 mm ²
	50 - 95 120 - 240 300 - 400 500 - 630 CM	
	50 - 95 120 - 240 95 - 240 300 - 400 500 - 630 CM RSM CM	
	35 - 70 120 - 240 300 - 400 500 - 630 CM	
17,5 8.7 / 15 (17.5)	50 - 95 120 - 240 300 - 400 500 - 630 CM	
	50 - 95 120 - 240 95 - 240 300 - 400 500 - 630 CM RSM CM	
	35 - 70 120 - 240 300 - 400 500 - 630 CM	
	50 - 95 120 - 240 300 - 400 500 - 630 CM	
24 12 / 20 (24) 12.7 / 22 (24)	50 - 95 120 - 240 95 - 240 300 - 400 500 - 630 CM RSM CM	
	35 - 70 120 - 240 300 - 400 500 - 630 CM	
	50 - 95 120 - 240 300 - 400 500 - 630 CM	
	50 - 95 120 - 240 300 - 400 500 - 630 CM	
36 18 / 30 (36) 19 / 33 (36)	50 - 95 120 - 240 300 - 400 500 - 630 CM	
	50 - 95 120 - 240 300 - 400 500 - 630 CM	
	50 - 95 120 - 240 300 - 400 500 - 630 CM	
	50 - 95 120 - 240 300 - 400 500 - 630 CM	

Standards
Cables IEC 60502-2 HD 620
Joints HD 629.1.S2 IEC 61442 IEC 60502-4
Connectors IEC 61238-1 (Class A) ANSI C119.4

Reference example





Heat shrink single-core cable branch joints 24 kV

D3UPTH ... series

Complete set of 3 prefabricated heat shrink single-core cable branch joints.

Use :

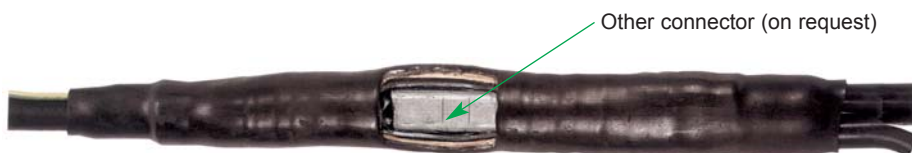
- Single-core cables with synthetic insulation.
- Cable range : 95 to 240 mm² (for other cable specifications and other voltage levels : contact us).

Principle :

- Heat shrink prefabricated elements.
- Taped metal screen with heat shrink cover and interconnection kit.
- **Mechanical tap connectors supplied for RSM version.**



D3UPTH RSM ...



D3UPTH ...

MB 18 EAU



Centering wedges
for 50, 95 and 150 mm².

Ref.	Area (mm ²)		Rated voltage (kV)	Connectors
	Main	Tap		
D3UPTH RSM 50-240 / 50-240 AL/CU	50 - 240	50 - 240	12 / 20 (24)	K3 MB 18 EAU
D3UPTH 50-150 / 50-150	50 - 150	50 - 150	12 / 20 (24)	—
D3UPTH 240 / 50-240	240	50 - 240	12 / 20 (24)	—



Heat shrink single-core
cable branch joints

12 / 24kV

ASM.. series

Prefabricated heat shrink single core cable branch joint

Use :

- Single-core VPE synthetic insulation cables according to **DIN VDE 0276-620** (e.g. N(A)2YSY, N(A)2XS(FL)2Y).
- Cable range : 95 to 240 mm².

Composition :

- Electrical field distribution putty.
- High voltage heat shrink insulation tubing with three-layer technology including electrical stress control.
- Heat shrink outer jacket.
- Mechanical connectors supplied.

Standards

Cables

**N(A)2YSY, N(A)2XS(FL)2Y
DIN VDE 0276-620**

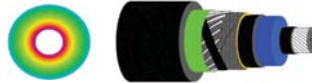
Joints

CENELEC HD 629.1

MB 18D



Ref.	Cable range - Main (mm ²)	Cable range - Tap (mm ²)
ASM 10-V 120-240	120 - 240	120 - 240
ASM 20-V 95-240	95 - 240	95 - 240



CSD ... series

CSE ... series

Separable connectors

12 / 24 / 36 kV

Separable connectors with connectors for connection of MV single-core cables with copper wire screen to transformers, cubicles, compact substations, motors, etc ...

- One-piece connector made of insulating EPDM rubber with semi-conductor screen.
- Connectable/disconnectable under no-load and no-voltage conditions.
- Test point to check the absence of voltage.
- Fixture device on the bushing.
- Energization only after plugging on the bushing.
- **Cables with metallic tape screen and/or with armour**, add the code of the grounding kit to the reference.
- Connectors supplied.

Standards
CSE ... / CSD ...
EN 50180
EN 50181
Interfaces
CSE / CSD 250 : Type A
CSE 400 : Type B







Separable connectors

12 / 24 kV

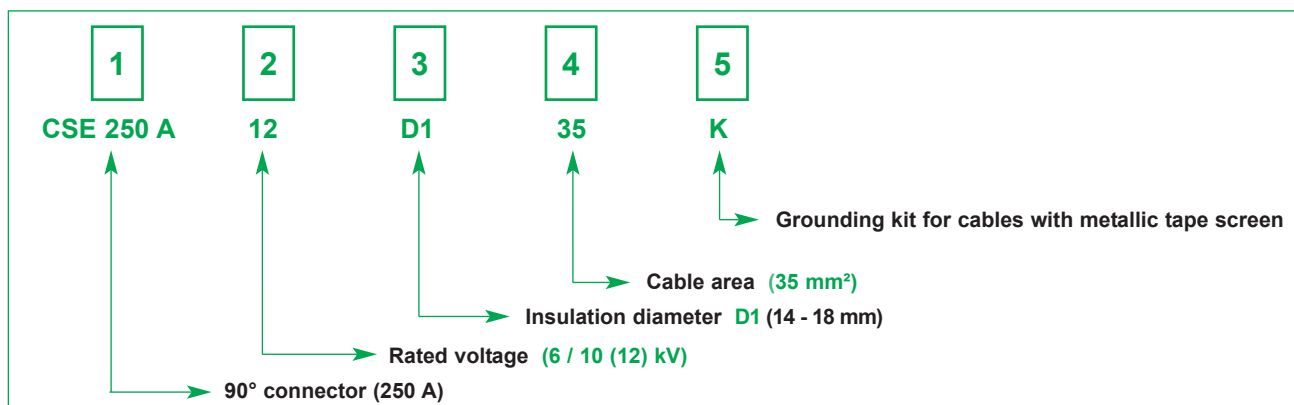
CSD 250 ... series

CSE 250 ... series

Reference composition (kit of 3 connectors).

N°	Ref.	Description	
1	CSD 250 A	Straight connector (250 A)	
	CSE 250 A	90° connector (250 A)	
2	12	Rated voltage (kV)	6 / 10 (12)
	24		12 / 20 (24)
3	D1	Cable insulation diameter (Ø mm)	14 - 18
	D2		17.5 - 21.9
	D3		21 - 25.4
	D4 (*)		24 - 27.5
	(*) On request only		
4	35	Cable area (mm²)	
	50		
	70		
	95		
	120 (**)		
(**) 12 - 17.5 kV only			
5	K	Grounding kit	Cables with metallic tape screen
	K1		Cables with metallic tape screen and armour
	K2		Cables with copper wire screen and armour

Reference example.






Separable connectors

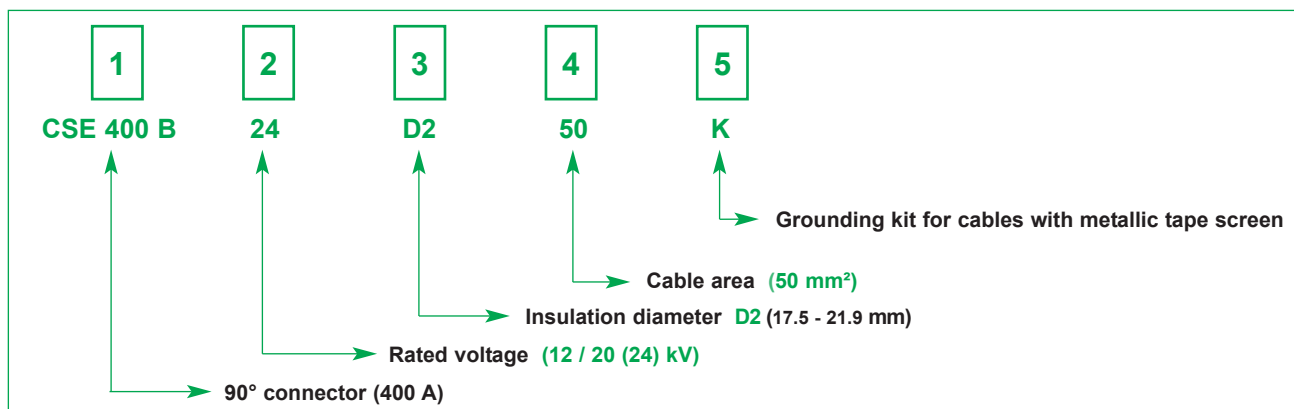
CSE 400 ... series

24 / 36 kV

Reference composition (kit of 3 connectors).

N°	Ref.	Description	
1	CSE 400 B	90° connector (400 A)	
2	24	Rated voltage (kV)	12 / 20 (24)
	36		18 / 30 (36)
3	D1	Cable insulation diameter (Ø mm)	14 - 18
	D2		17.5 - 21.9
	D3		21 - 25.4
	D4		24 - 27.5
4	50	Cable area (mm²)	
	70		
	95		
	120		
	150		
	185		
	240		
5	K	Grounding kit	Cables with metallic tape screen
	K1		Cables with metallic tape screen and armour
	K2		Cables with copper wire screen and armour

Reference example





Hand held battery powered impact screw gun machine

ESM 150-2

Hand held battery-powered impact screw gun machine for MV mechanical underground connectors with shear head screws.

Characteristics :

- No-load rotation speed : 2 200 tr / mn, full-load rotation speed : 3 200 impacts / min. Maximum torque : 200 Nm.
- 1/2 square drive for use with **DS3 ...** series sockets.
- Weatherproof housing design.
- Control by trigger recessed into the handle with variable-speed drive for progressive feed and automatic brake when the trigger is released.
- Service life (number of screwing operations) 100 shear head screws (breaking torque 40 Nm) with **BL 1430** battery (3.0 A/h).
- Operating temperature : – 10 to + 40 °C.
- Dimensions with battery : 234 x 168 x 79 mm.
- Weight with battery : 1.600 kg.
- Delivered in a plastic carrying case.



ESM 150-2



BL 1430



CH 1435-HC

Accessories :

- Li / ion battery - 3 A/h, 14.4 V : **BL 1430**.
- High speed charger 220-240 V AC - 50/60 Hz : **CH 1435-HC**.
- Vehicle charger : **CH 1435-HCXT**.
- 10, 13, 16, 19 A/F hex sockets : **DS3 H10, DS3 H13, DS3 H16, DS 3H19**.
- 5 et 6 mm A/F hex keys : **DS3HC5X, DS3HC6X**.
- Adapter for sectoral cables : **DS3MR240**.
- Plastic carrying case : **CP-ESM 150-2**.



DS3 HC5X

DS3 HC6X



DS3 H10



DS3 H13



DS3 H16



DS3 H19

Kits :

Ref.	Composition
	Ref.
ESM150-2KLE	1 ESM150-2
	2 BL1430
	1 CH1435-HC
	1 DS3KE A
	1 CP-ESM150-2
DS3KE A	1 DS3H10
	1 DS3H13
	1 DS3H16
	1 DS3H19
	1 DS3HC5X
	1 DS3HC6X



CP-ESM 150-2



ESM 150-2 KLE



Tapping and junction boxes GEL type

SICGEL ... series

Halogen-free boxes for junction and tap-off.

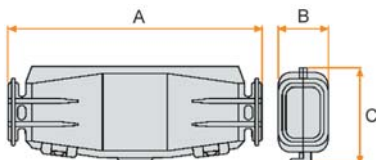
Features:

- These boxes have been specially designed to interface with or tap-off industrial synthetic cables. This design allows for quick and simple installation.
- The range of **SICGEL** boxes ensures the junction and tapping of LV cables from 6 to 70 mm², single and multi-conductor.
- The gel provides perfect electrical insulation:
 - Dielectric features: 0.6 - 1 kV.
 - Ambient operating temperature: – 20 to + 90 °C.
 - Unlimited life.
- The **SICGEL** boxes can be re-opened to make a new connection or a new tap-off.

Standards :

- IP 68 (IEC 70-1).
- In accordance with standards IEC 20-33 and IEC 20-63.
- Double insulating.
- Class II □ (IEC 64-8).

Dimensions (see table) :



Installation:

- Thanks to the gel in each half shell, the installation does not require any additional component.
It can be carried out cold and instantly.
- The gel also provides good support to the cables.
- Uses:
 - Connection of underground connections for public lighting, energy, traffic lights and telephone.
 - Outdoor applications possible due to a very good resistance to UV and increased water-resistance (IP 68).

The product's extras:

- Full range.
- Quick installation.
- Water-resistance.
- Option to re-open the box to make a new connection.



References :

Ref.	Article code	Cable range max. (mm ²)		Cable Ø (mm)	Dimensions (mm)		
		Junction	Tapping		A	B	C
SICGEL 30 CP	06G1005	2 x 10	3 x 6	5 - 16	100	30	49
SICGEL 50 CP	06G1006	4 x 6 to 4 x 10	2 x 16	8 - 22	165	36	58
SICGEL 100 CP	06G1025	4 x 6 to 4 x 25	4 x 16	10 - 35	220	50	90



AVM ... series

Complete sets for junction, single or double tapping applications.

These kits include :

- A box made of two clear plastic half-bodies with slide closures.
- Foam seals for great flexibility of use.
- Polyurethane resin for filling the accessory.
- An abrasive tape.
- A pair of gloves

Use with the same part number :

- Junction.
- Single tapping.
- Double tapping.

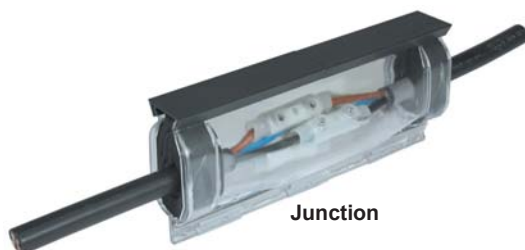
Poured-resin boxes

0.6 / 1 (1.2) kV

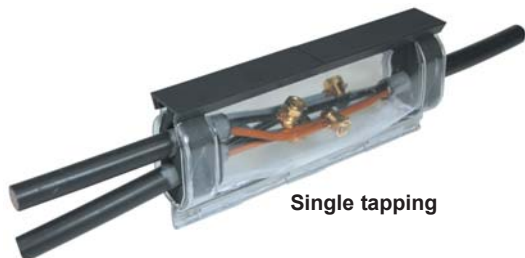
Standards

VDE 0291 / Part 2

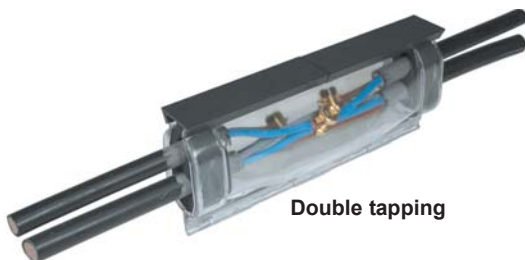
**Tested to :
VDE 0278 / Parts 1 and 3**



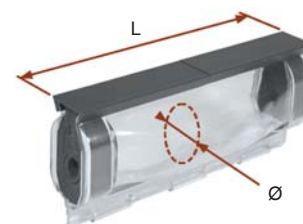
Junction



Single tapping



Double tapping



Ref.	Length L (mm)	Inner diameter Ø (mm)	Cable diameter (mm)				Cable area (mm²)				Resin (kg)
			Main		Tap		Main		Tap		
			Mini	Maxi	Mini	Maxi	Mini	Maxi	Mini	Maxi	
AVM 40-175	175	40	8	18	8	12	3 x 1.5	5 x 6	3 x 1.5	5 x 4	0.225
AVM 55-220	220	55	15	26	10	20	4 x 6	5 x 10	3 x 4	5 x 10	0.615
AVM 75-300	300	75	19	28	13	23	3 x 16	5 x 25	3 x 4	5 x 10	1.350
AVM 95-400	400	95	28	38	19	26	4 x 35	4 x 70	4 x 16	4 x 25	2.500
AVM 110-500	500	110	30	53	20	33	4 x 70	4 x 150	4 x 25	4 x 50	4.950
AVM 125-600	600	125	38	58	23	38	4 x 95	4 x 185	4 x 35	4 x 70	6.600
AVM 145-500	500	145	38	67	27	53	4 x 50	4 x 240	4 x 35	4 x 150	6.800



MF ... series

Bare splices.

- For aluminium or copper cables.
- Tightening with male hex key (H).

Ref.	Cable area (mm ²)	H on flats (mm)
Brass bare splices		
MF 4-1	6 - 16	3
MF 4-2	16 - 50	
MF 4-9	16 - 70	
Tinned aluminium bare splices		
MF 4-1 A	6 - 16	3
MF 4-2 A	16 - 50	
MF 4-9 A	16 - 70	

MT ... series

Aluminium bolted splices.

- For aluminium or copper cables.
- Tightening with male hex key (H).

Ref.	Cable area (mm ²)	Recommended torque (Nm)
MT06-25TN	6 - 25	8
MT10-70TN	10 - 70	15
MT16-95TN	16 - 95	20

KVI ... series

Preinsulated splices.

- For aluminium or copper cables.
- Tightening with male hex key (H).

Ref.	Cable area (mm ²)	H on flats (mm)
KVI 6- 25	6 - 25	4
KVI 25-95	25 - 95	5
KVI 65-185	35 - 185	6

KKV ... series

Junction sets.

- In aluminium alloy with 4 compact entries and plastic separator for aluminium or copper cables.
- Tightening with male hex key (H).

Ref.	Cable area (mm ²)	H on flats (mm)
KKV 10-50	10 - 50	5
KKV 50-185	50 - 185	6

J5-MF ... series

Junction sets

- Compact set for 5 conductors maxi, with integrated plastic separator.
- Tightening with male hex key (H).

Ref.	Material	Cable area (mm ²)	H on flats (mm)
J5-MF 4-23	Tinned aluminium	6 - 16	3
J5-MF 4-2	Brass	16 - 50	

PC1 10-10

Tap connector.

- Multisection, insulation-percing (main and tap : 1.5 to 10 mm²).
- Insulating body.
- Low tightening for easy installation.

Mechanical connectors for AVM boxes



MF ...



MF ... A



MT ...



KVI ...



KKV ...



J5-MF 4-23



J5-MF 4-2



PC1 10-10



Connectors for AVM boxes

KS .. series

High resistant copper tapping connectors for copper cables.

Ref.	Main		Tap		Packaging
	(mm ²)	Ø (mm)	(mm ²)	Ø (mm)	
KS 90	4 - 6	2.3 - 3.0	1.5 - 6	1.5 - 3.0	100
KS 15	6 - 10	2.3 - 4.0	2.5 - 10	1.8 - 3.8	
KS 17	10 - 10	3.8 - 4.7	2.5 - 10	1.8 - 4.7	
KS 20	10 - 16	3.8 - 5.2	2.5 - 16	1.8 - 5.2	
KS 22	16 - 25	5.1 - 6.3	2.5 - 25	1.8 - 6.3	
KS 23	16 - 35	5.1 - 8.6	2.5 - 35	1.8 - 8.6	50
KS 25	25 - 50	6.2 - 9.3	2.5 - 35	1.8 - 9.3	
KS 26	35 - 70	7.4 - 10.6	2.5 - 70	1.8 - 10.6	
KS 27	50 - 95	8.3 - 12.5	10 - 95	3.7 - 12.5	25
KS 29	50 - 120	8.8 - 15.2	10 - 120	3.7 - 15.2	
KS 31	70 - 185	9.5 - 18.0	70 - 185	9.3 - 18.0	12
KS 34	70 - 240	10.3 - 20.6	70 - 240	10.5 - 20.6	
KS 39	120 - 300	13.3 - 25.3	120 - 300	13.3 - 25.3	1
KS 44	185 - 500	16.0 - 29.2	120 - 500	16.0 - 29.2	



KS ..



KSU .. series

Tinned copper tapping connectors for aluminium or copper cables.

Ref.	Main		Tap		Tightening torque (Nm)	Packaging
	(mm ²)	Ø (mm)	(mm ²)	Ø (mm)		
KSU 17	4 - 10	2.3 - 4.0	4 - 10	2.3 - 4.0	20	100
KSU 20	6 - 16	2.3 - 5.2	6 - 16	2.3 - 5.2		
KSU 22	6 - 25	2.3 - 6.3	6 - 25	2.3 - 6.3		
KSU 23	10 - 35	3.7 - 8.0	10 - 35	3.7 - 8.0	30	100
KSU 25	35 - 50	7.4 - 9.4	6 - 50	6.0 - 9.4		
KSU 26	35 - 70	7.4 - 11.1	10 - 70	3.7 - 11.1	45	50
KSU 27	50 - 95	8.8 - 12.5	10 - 95	3.7 - 12.5		
KSU 29	50 - 120	8.8 - 15.2	10 - 120	3.7 - 15.2	75	25
KSU 31	50 - 185	9.0 - 18.0	25 - 185	6.3 - 18.0		
KSU 34	185 - 240	17.5 - 20.6	35 - 240	7.4 - 20.6	95	12



KSU ..



MJ ... series

Tin-plated copper bare midspans joints to crimp.

In accordance with NF C 20-210 (07-87) standard.

Ref. chamfered type	Ref. tulip type	Cable (mm ²)		Die
		Stranded	flexible	
MJ 1,5 C			1.5	
MJ 2,5 C			2.5	
MJ 4 C			4	HCU 4
MJ 6 C	MJ 6 CT		6	HCU 6
MJ 10 C	MJ 10 CT		10	HCU 10
MJ 16 C	MJ 16 CT		16	HCU 16
MJ 25 C	MJ 25 CT		25	HCU 25
MJ 35 C	MJ 35 CT	35	25	HCU 35
MJ 50 C	MJ 50 CT	50	35	HCU 50
MJ 70 C	MJ 70 CT	70	50	HCU 70
MJ 95 C	MJ 95 CT	95	70	HCU 95
MJ 120 C	MJ 120 CT	120	95	HCU 120
MJ 150 C	MJ 150 CT	150	120	HCU 150
MJ 185 C	MJ 185 CT	185	150	HCU 185
MJ 240 C	MJ 240 CT	240	185	HCU 240



MJ ... C
Chamfered type



MJ ... CT
Tulip type



HCU

C ...

"C" type copper connectors (see page 25).





Ribboned injected-resin service boxes with IP2X three-core cable connector

DDSI-N 240-35 TTD4

DSI-N 240-35 TTD4

Complete single or double tapping sets (**DDSI-N ...**) or single only (**DSI-N ...**) for underground cables with 250 mm reduced working area.

They provide the capability, depending on network conditions, to make a standard accessory (with earthing) or an ISOL accessory (isolated from earth).

Such sets include :





- The **TTDS 4-05 I** (IP2X - 4 kV) four-core connector with insulation piercing on main and tap, with an earthing kit, four neutral separators colour-coded according to the sectional area of the main cable, four **GPE 3** cable ends (single tapping) and two **ENC 25-25** cable ends for HM 27/03/139 cables.
- All ribbons and accessories (alveoli, tightness and mechanical protection ribbons).
- The outer screen.
- The ID plate (traceability).
- The two-component resin, in large capacity bags, cold-curing and non-removable, comes with the injection devices (valve, vents, pouring nozzle).

“RV” version : with resin new generation.

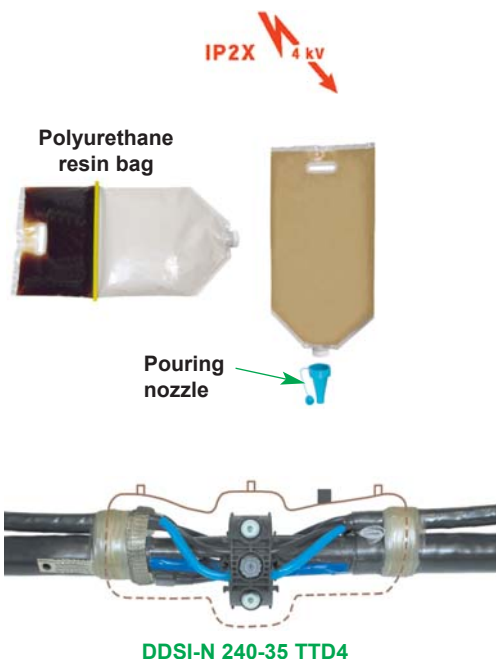
Expanding spreaders adapted for the spacing of the conductors during the fitting of the connectors are available under **CIE 1S** ref.

The earth improvement kit, used for earthing in accordance with the EDF guideline, is available under the reference **25 HURK V10X 2505**.

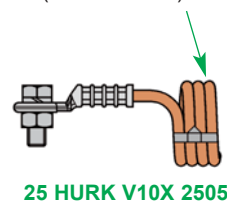


Neutral separators			
			
3 x 240 + 95 3 x 240 + 115M(95E)	3 x 150 + 70 3 x 150 + 95M(70E)	3 x 95 + 50 3 x 95 + 75M(50E)	3 x 50 + 50

Cable standards
NF C 33-210
H-M24-2007-03199
HM-27/03/139



Copper cable
(25 mm² / 5 m)



Ref.	Cable type	Working area (mm)	Resin bag number	Area (mm ²)			
				Maxi		Mini	
				Main	Tap	Main	Tap
DDSI-N 240-35 TTD4	NF C 33-210 H-M24-2007-03199 HM-27/03/139	250	1 x 2 I	240	1 or 2 4 x 35 Al	50	1 or 2 4 x 10 Cu
DDSI-N 240-35 TTD4 RV							
DSI-N 240-35 TTD4				240	1 4 x 35 Al	50	1 4 x 10 Cu
DSI-N 240-35 TTD4 RV							



DDSI ... 240-35 TTD series

DSI ... 240-35 TTD series

Complete single or double tapping sets (**DDSI ...**) or single only (**DSI ...**) for underground cables with reduced, normal or enlarged working areas according to the types of conductors to be connected.

Such sets include :

- Three grey phase connectors and one blue neutral-earthing connector.
The phase insulation piercing connectors (grey) on main and tap are IP2X-4 kV.
The neutral insulation piercing connector (blue) on main and taps (for lead protected conductors) with built-in earthing (one connector for two functions) and fitting (s) **ENC 25-25** for conductor HM 27/03/139 is IP2X-4 kV.
- All ribbons and accessories (alveoli, tightness and mechanical protection ribbons), the outer screen and the ID plate (traceability).
- The two-component resin, in large capacity bags, cold-curing and non-removable, comes with the injection devices (valve, vents, pouring nozzle). **"RV" version : with resin new generation.**

Expanding spreaders adapted for the spacing of the conductors during the fitting of the connectors are available under **CIE 1S** reference.

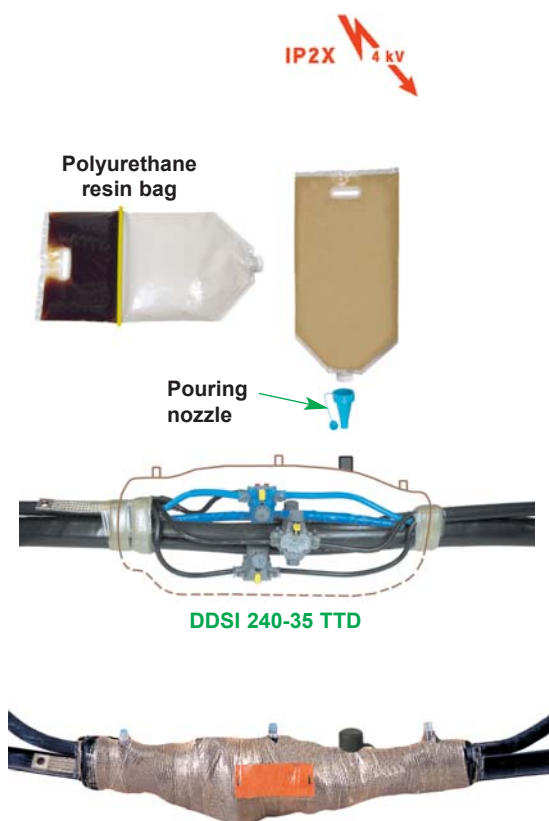
The earth improvement kit, used for earthing in accordance with the EDF guideline, is available under the reference **25 HURK V10X 2505**.

"ISL" boxes : Such sets are used when no connexion is done between earth and neutral (for example when strong wandering currents are expected). However linemen protection is always ensured by the neutral connection (itself being earthed by other means up or downwards).

"N" boxes : These sets provide under a single reference the capability to make a standard accessory (with earthing) or an ISOL accessory (isolated from earth).



Cable standards
NF C 33-210
H-M24-2007-03199
HN 33-S-32
HM-27/03/139
NF C 33-100 (2 or 3 phase system)
Dry two phases



Ref.	Cable type	Working area (mm)	Resin bag number	Area (mm²)			
				Maxi		Mini	
				Main	Tap	Main	Tap
DDSI 240-35 TTD	NF C 33-210, H-M24-2007-03199 HM-27/03/139	250	1 x 2 l				
DDSI 240-35 TTD	NF C 33-210, HN 33-S-32 H-M24-2007-03199	400	1 x 2.5 l				
DDSI-ISL 240-35 TTD	HM-27/03/139			240	1 or 2 4 x 35 Al	50	1 or 2 4 x 10 Cu
DDSI-CPI-N 240-35 TTD	NF C 33-210, HN 33-S-32 H-M24-2007-03199, NF C 33-100	600	1 x 3.5 l				
DDSI-CPI-N 240-35 TTD RV	Dry two phases, HM-27/03/139						
DSIC 240-35 TTD	NF C 33-210, H-M24-2007-03199 HM-27/03/139	250	1 x 2 l				
DSI 240-35 TTD	NF C 33-210, HN 33-S-32 H-M24-2007-03199	400	1 x 2 l				
DSI-ISL 240-35 TTD	HM-27/03/139		1 x 2.5 l	240	1 4 x 35 Al	50	1 4 x 10 Cu
DSI-CPI-N 240-35 TTD	NF C 33-210, HN 33-S-32 H-M24-2007-03199, NF C 33-100	600	1 x 3.5 l				
DSI-CPI-N 240-35 TTD RV	Dry two phases, HM-27/03/139						



JDSICR-N ... TTD series JDSIR-CPI-N ... TTD series

Complete junction / tapping sets for underground cables with normal or enlarged working areas according to the types of conductors to be connected.

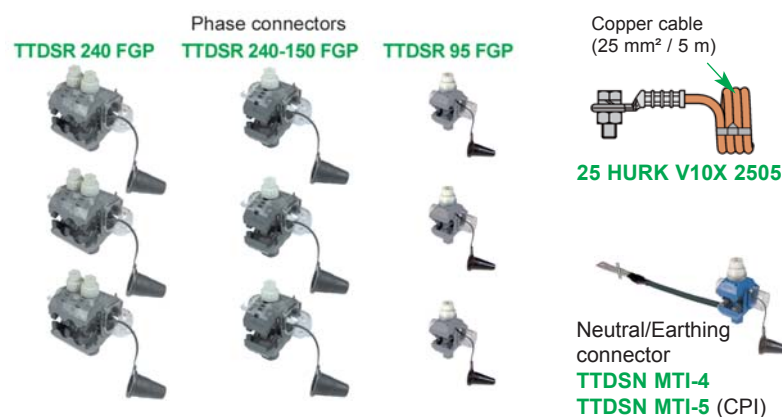
Such sets include :

- Three grey phase connectors, and one blue neutral-earthing connector.
 - The phase insulation piercing connectors (grey) on main and tap are IP2X - 4 kV.
 - The neutral insulation piercing connector (blue) on main and tap (for lead protected conductors) with built-in earthing (one connector for two functions) is IP2X - 4 kV.
- All ribbons and accessories (alveoli, tightness and mechanical protection ribbons), the outer screen and the ID plate (traceability).
- The two-component resin, in large capacity bags, cold-curing and non-removable comes with the injection devices (valve, vents, pouring nozzle).

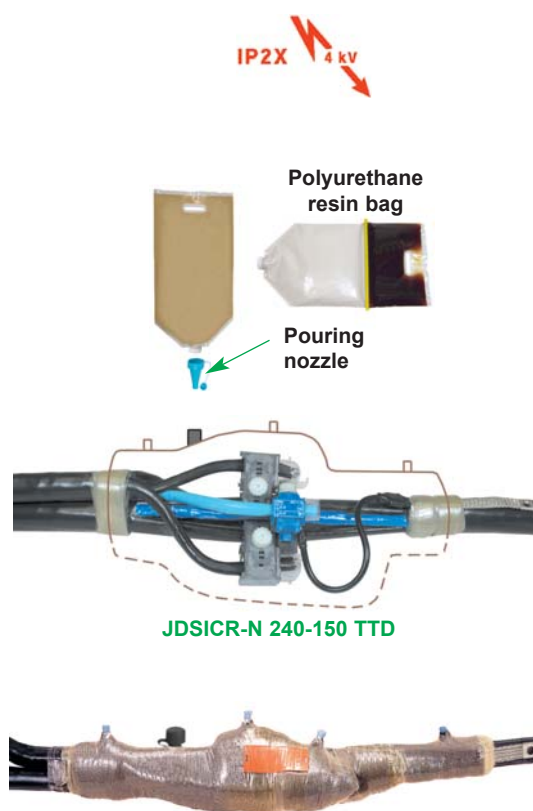
‘RV’ version : with resin new generation.

Expanding spreaders adapted for the spacing of the conductors during the fitting of the connectors are available under **CIE 1S** reference.

The earth improvement kit, used for earthing in accordance with the EDF guideline, is available under the reference **25 HURK V10X 2505**.



Cable standards
NF C 33-210
H-M24-2007-03199
HN 33-S-32
NF C 33-100 (2 or 3 phase system)
Dry two phases



Ref.	Cable type	Working area (mm)	Resin bag number	Area (mm²)			
				Maxi		Mini	
				Main	Tap	Main	Tap
JDSICR-N 95 TTD	NF C 33-210 H-M24-2007-03199	400	1 x 2.5 l	95	95	50	50
JDSICR-N 95 TTD RV							
JDSICR-N 240-150 TTD		400	1 x 3.5 l	240	150	95	50
JDSICR-N 240-150 TTD RV							
JDSICR-N 240-TTD		500	1 x 4.5 l	240	240	95	95
JDSICR-N 240 TTD RV							
JDSIR-CPI-N 95 TTD	NF C 33-100 HN 33-S-32 NF C 33-210 H-M24-2007-03199 Dry two phases	600	1 x 4.5 l	95	95	50	50
JDSIR-CPI-N 95 TTD RV							
JDSIR-CPI-N 240-150 TTD		600	1 x 4.5 l	240	150	95	50
JDSIR-CPI-N 240-150 TTD RV							
JDSIR-CPI-N 240 TTD		800	1 x 2 l + 1 x 3.5 l	240	240	95	95
JDSIR-CPI-N 240 TTD RV			1 x 5.5 l				



Poured-resin service boxes with IP2X three-core cable connector

DDSC-N 240-35 TTD4

DSC-N 240-35 TTD4

Complete single or double tapping sets (**DDSC ...**) or single only (**DSC ...**) for underground cables with reduced working area of 250 mm.

They provide the capability, depending on network conditions, to make a standard accessory (with earthing) or an ISOL accessory (isolated from earth).





For earthing with a standard accessory, use of the earth improvement kit, available under the reference **25 HURK V10X 2505**, is required.

Such sets include :

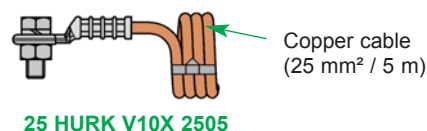
- The **TTDS 4-05 I** (IP2X - 4 kV) four-core connector with insulation piercing on main and tap, with an earthing kit, four neutral separators colour-coded according to the sectional area of the main cable, four **GPE 3** cable ends (single tapping) and two **ENC 25-25** cable ends for HM 27/03/139 cables.
 - A box including a body with gaskets, a cover equipped (automatic closing pegs, and flow-valve, identification plate).
 - The two-component resin, in large capacity bags with pouring nozzle.
- "RV" version : with resin new generation.**

Expanding spreaders adapted for the spacing of the conductors during the fitting of the connectors are available under **CIE 1S** reference.



Neutral separators			
			
3 x 240 + 95 3 x 240 + 115M(95E)	3 x 150 + 70 3 x 150 + 95M(70E)	3 x 95 + 50 3 x 95 + 75M(50E)	3 x 50 + 50

Cable standards
NF C 33-210 H-M24-2007-03199 HM-27/03/139



Ref.	Cable type	Working area (mm)	Resin bag number	Area (mm²)			
				Maxi		Mini	
				Main	Tap	Main	Tap
DDSC-N 240-35 TTD4	NF C 33-210 H-M24-2007-03199 HM-27/03/139	250	1 x 4.5 l	240	1 or 2 4 x 35 Al	50	1 or 2 4 x 10 Cu
DDSC-N 240-35 TTD4 RV				240	1 4 x 35 Al	50	1 4 x 10 Cu
DSC-N 240-35 TTD4				240	1 4 x 35 Al	50	1 4 x 10 Cu
DSC-N 240-35 TTD4 RV				240	1 4 x 35 Al	50	1 4 x 10 Cu



DDSC ... 240-35 TTD series

DSC ... 240-35 TTD series

Complete single or double tapping sets (**DDSC ...**) or single only (**DSC ...**) for underground cables with reduced (250 mm) or standard (400 mm) working areas according to the types of conductors to be connected.

Such sets include :

- Three grey phase connectors (with single or double tapping and only one connector per tap in single phase connection)
- A blue coloured neutral / earthing connector (one connector for both functions) with fitting (s) **ENC 25-25** for conductors HM 27/03/139.
- The earthing insulation piercing connectors on the main and tap cables pierce the blue auto adhesive protection and, in the case of the neutral / earthing connector, the lead.
- A box including a body with gaskets, a cover equipped (automatic closing pegs, and flow-valve, identification plate).
- The two-component resin, in large capacity bags with pouring nozzle.

Expanding spreaders adapted for the spacing of the conductors during the fitting of the connectors are available under **CIE 1S** reference.

The earth improvement kit, used for earthing in accordance with the EDF guideline, is available under the reference **25 HURK V10X 2505**.

The "**ISL**" versions are used if there is no jointing of the neutral and earth intended (for instance in presence of strong stray currents).

However, third party safety by internal shield is always guaranteed.



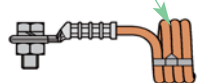
Phase connectors



Neutral/Earthing connector

ENC 25-25

Copper cable
(25 mm² / 5 m)



25 HURK V10X 2505

Poured-resin service boxes with IP2X single-core cable connectors

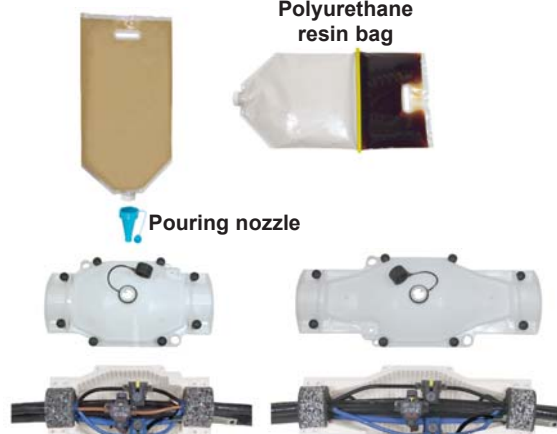
Cable standards

NF C 33-210
H-M24-2007-03199
HN 33-S-32
HM-27/03/139

IP2X 4 kV

Polyurethane resin bag

Pouring nozzle



DDSCC 240-35 TTD
Reduced working area
250 mm

DDSC 240-35 TTD
Standard working area
400 mm



DDSCC 240-35 TTD
DSCC 240-35 TTD



DDSC 240-35 TTD
DSC 240-35 TTD

Ref.	Cable type	Working areal (mm)	Resin bag number	Area (mm ²)			
				Maxi		Mini	
				Main	Tap	Main	Tap
DDSC 240-35 TTD	NF C 33-210 HN 33-S-32	400	2 x 3.5 l	240	1 or 2 4 x 35 Al	50	1 or 2 4 x 10 Cu
DDSC-ISL 240-35 TTD	H-M24-2007-03199 HM-27/03/139						
DDSCC 240-35 TTD	NF C 33-210 H-M24-2007-03199 HM-27/03/139						
DSC 240-35 TTD	NF C 33-210 HN 33-S-32	400	2 x 3.5 l	240	1 4 x 35 Al	50	1 4 x 10 Cu
DSC-ISL 240-35 TTD	H-M24-2007-03199 HM-27/03/139						
DSCC 240-35 TTD	NF C 33-210 H-M24-2007-03199 HM-27/03/139						



JDSCR ... TTD

Complete junction - tap assemblies for NF C33-210 and H-M24-2007-03199 underground cables with working area according to the HN 68-S-12.

This assembly includes :

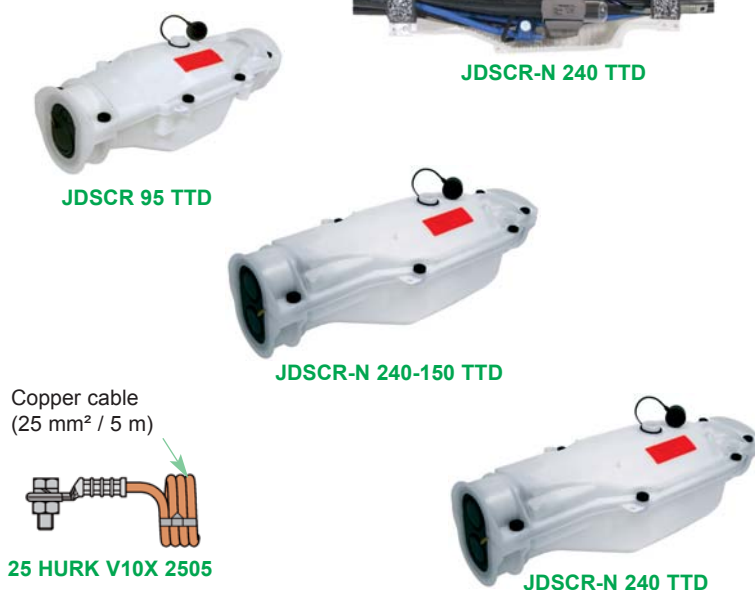
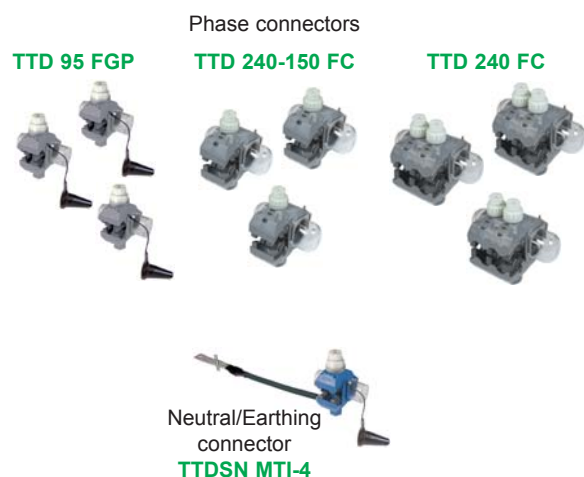
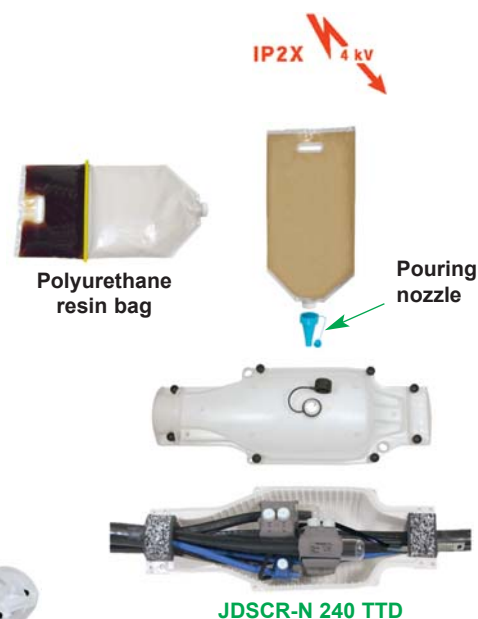
- Three grey phase connectors.
- A blue coloured neutral - earthing connector (one connector for both functions).
- The earthing insulation piercing connectors on the main and tap cables pierce the blue auto adhesive protection and, in the case of the neutral / earthing connector, the lead.
- A box including a body with gaskets, a cover equipped (automatic closing pegs, and flow-valve, identification plate).
- The two-component resin, in large capacity bags with pouring nozzle.
- “RV” version : with resin new generation.

Expanding spreaders adapted for the spacing of the conductors during the fitting of the connectors are available under **CIE 1S** reference.

These accessories provide the capability, depending on network conditions, to make a standard accessory (with earthing) or an ISOL accessory (isolated from earth).

For earthing with a standard accessory, use of the earth improvement kit, available under the ref **25 HURK V10X 2505**, is required.

Cable standards
NF C 33-210 H-M24-2007-03199



Ref.	Cable type	Working area (mm)	Resin bag number	Area (mm²)			
				Maxi		Mini	
				Main	Tap	Main	Tap
JDSCR 95 TTD	NF C 33-210 H-M24-2007-03199	400	2 x 3.5 l	95	95	50	50
JDSCR-N 240-150 TTD		400	2 x 5.5 l	240	150	95	50
JDSCR-N 240-150 TTD RV							
JDSCR-N 240 TTD		500	2 x 5.5 l	240	240	95	95
JDSCR-N 240-TTD RV							

Earthing connections



CATU



Earthing connections

	<i>Pages</i>
Earthing connections accessories :	
– "C" type connectors	109
– Tinned forged copper terminals	109
– Braid connections on earth rods	109
 Earth rods :	
– Cross-recessed rod with connector	110
– Galvanized steel rod with connector	110
– Copper clad steel rod with connector	110
 Self connectable earth rods :	
– Galvanized rods	111
– Copper clad rods	111
– Stainless steel rods	111
– Earth rod with earth cable pulling device	111
 Earthing mats and testers :	
– Earthing wire mats	112
– Earthing grid	112
– Earthing resistance tester	112
– Connection assembly for earthing tester	112



Earthing connections accessories

C ...

"C" type copper connectors (see page 25).



CC-2529 series

Tinned forged copper terminals.

Connection of all metallic pieces to be grounded.

Compression by hexagonal die. 8 ton press - 3 compressions by lug (3 x 5 mm).

Ref.	Area (mm ²)	Ø i (mm)	Ø e (mm)	F (mm)	Ø B (mm)	Ø P (mm)	L (mm)
CC-2529	25 - 29	7.8	12	25	14.5	25	65
CC-2529/3					16.5		

Kit for measuring point for earth connection

Composition

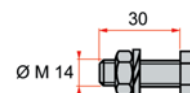
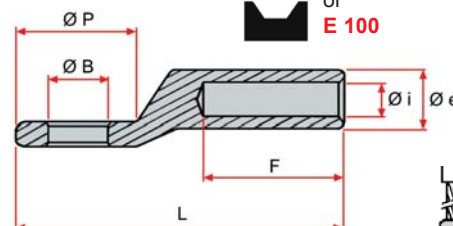
KML 2 CC-2529 + Stainless steel screw



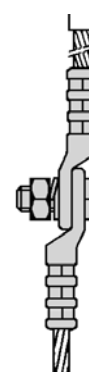
CC-2529



H8HCU 50-150
OR
E 100



Stainless steel screw



Braid connections on earth rods.

TZ ... / TO ... / TS ... series

Connectors.

Ref.	For rod Ø (mm)	Cable area (mm ²)	Material
TZ-1604	16	6 - 95	Steel galvanized
TO-3-16/19	19	16 - 95	Bronze
TS-1601	14.3	70	
TZ-1601	16	16 - 95	Bronze
TS-1901	17.3		



TZ-1604



TO-3-16/19



TS-1601
TS-1901
TZ-1601

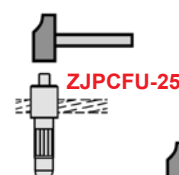
ZJPC ... / TFT ... series

Sleeve type connectors to hammer.

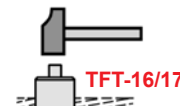
Ref.	Use	Ø rod (mm)	Braid area (mm ²)
ZJPCFU-25	Indoor	16 (Copper - steel)	25 / 29
TFT-16/17	Outdoor	17.3 (Stainless steel)	



CH LMZ



ZJPCFU-25



TFT-16/17



CH-LMZ / CH-S

Driving heads

for self connectable earth rods (for hand hammer)

Ref.	Ø rod (mm)
CH-LMZ	16 - 17.3
CH-S	20



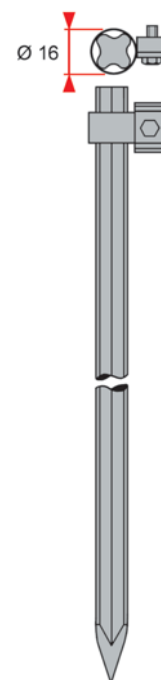
Earth rods

DBXO ... series

Cross-recessed rods with connector.

- Made from hot galvanized steel.
- Delivered with one connector per rod.

Ref.	Diameter Ø (mm)	Length (m)
DBXO-10	16	1
DBXO-15	16	1.50



DBXO ...

TV ... series

Rod Ø 16 mm (TV ...) with connector (TZ-1604).

- Material : Galvanized steel according to EN ISO 1461 standard (average thickness : 85 µm).
- Connector **TZ-1604** : galvanized steel - Capacity 16 to 60 mm².

Ref.	Diameter Ø (mm)	Length (m)
TV-1610	16	1
TV-1615	16	1.50



TV ...

TP ... R series

Rod Ø 16 mm (TP ... R) with connector (TO-3-16/19).

- Material : Copper cladded steel 254 µm - Electrolytic copper cladded according to ASTM 510-77 standard.
- Connector **TO-3-16/19** : Bronze - Capacity 6 - 95 mm².

Ref.	Diameter Ø (mm)	Length (m)
TP-1610-R	16	1
TP-1615-R	16	1.50



TP ... R



Self connectable earth rods

TZ-116 .. / TR-119- .. / TRI- ... series

These rods show on one side a male milled length ended with a spike and on the other side a female part filled with protective and conductive grease. A plastic cap seals provisionally the hole to avoid any penetration of odd elements before using.

High mechanical performances :

- **A 60 graded steel** with breaking strength between 60 and 72 kgf/mm², minimum elongation 16 %.

Models TZ-116- .. : galvanisation according to EN ISO 1461 standard (average thickness 85 µm).

Models TR-119- .. : electrolytic copper cladded according to ASTM 510-77 standard.

- **Stainless steel x 30 Cr 13** : annealed stainless grade according to AFNOR Z 30 C 13 standard.

Modèles TRI- ...

Installation :

The male end looks towards ground and hammering shall be performed on female end.

Therefore hammering shall never be done on external edge of female end. It is consequently absolutely necessary to use the specially designed driving head.

Ref.	Material	Ø (mm)	Length (m)
TZ-116-10	Galvanized steel	16	1
TZ-116-15		16	1.50
TR-119-10	Copper cladded steel 350 µm	17.3	1
TR-119-15		17.3	1.50
TRI-1610	Stainless steel	16	1
TRI-1615		16	1.50

VSU 10 / AS 10

Earth rod with earth cable pulling device.

Principle (fig.1)

- Earth cable hooked at the lower tip of the rod.
- No connector required.
- As the earth cable protrudes from the rod, it has full contact with the earth.
- For single or serial grounding.

Ref.	Name	Ø (mm)	Length (m)
VSU 10	earth rod with pulling device	16	1
AS 10	rod extension		1



**TZ-116-10
TZ-116-15
TR-119-10
TR-119-15
TRI-1610
TRI-1615**

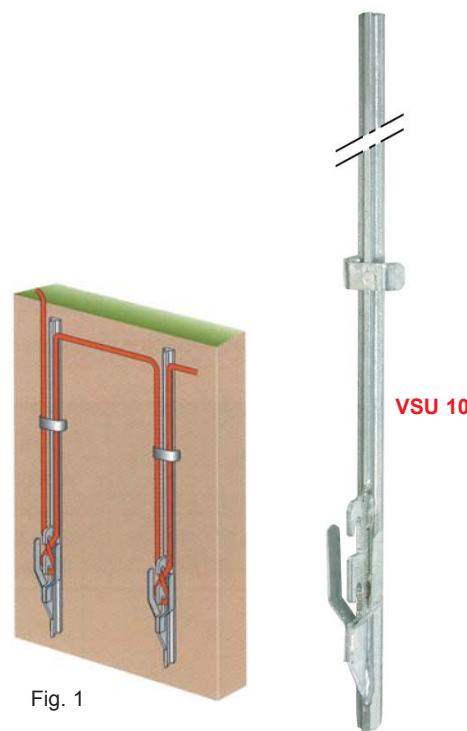


Fig. 1



Earthing mats and testers

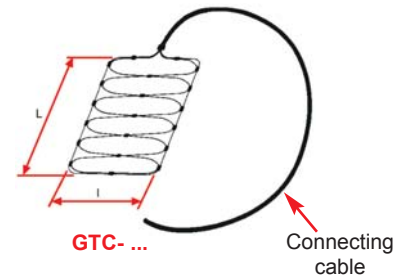
GTC- ... series

Earthing wire mats.

Made of annealed electrolytic copper wire, Ø 30/10.

Connecting cable 2 m long can be extended up to 5 m, conductor : 29 mm² copper.

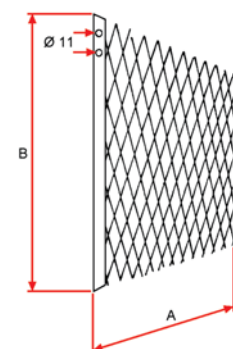
Ref.	Dimensions l x L (cm)	Connecting cable length (m)
GTC-4	40 x 60	4
GTC-6	45 x 60	2
GTC-14	45 x 140	2
GTC-25	45 x 250	2



GMDA- ...

Earthing grid (galvanized steel).

Ref.	Dimensions A x B (cm)
GMDA-40	92 x 40



MX-430-M

Earth resistance tester

Allows the measurement of earth resistance and earth specific resistivity and also the parasite voltages caused by grounding parasitic voltage presence. This equipment is suitable for fast and easy measurement of the grounding resistance in home, industrial buildings, substations ...

Technical features

- **Application:** measurement of grounding resistances (with 3 earth rods), earth resistivity (with 4 earth rods) and parasite voltage presence.
- **Range of measurement:** 0 - 20 Ω ; 0-200 Ω ; 0-2000 Ω and 20 KΩ.
- **Voltmeter:** voltmeter function in AC range as a conventional voltmeter 0-200 V AC.
- **Operation frequency:** 1470 Hz.
- **Current in and output power:** less than 0.5 W and the output current is limited to less than 15 mA (peak to peak).
- **Operation temperature:** -10°C / +50°C.
- **Storage temperature:** -25°C / +65°C.
- **Humidity:** 95% RH (without condensation).
- **Dimensions:** 221 x 189 x 99 mm.
- **Weight:** 2 kg.
- **High visibility** 3 1/2 digit display with direct readings, even under sunlight.
- **A smart charger** is microprocessor controlled and can be powered from the mains by a power plug provided source or from a 12 V car battery with connexion wire.



MX-430-M

MX-433-T

Accessories (measurement kit) for MX-430-M :

- 1 storage bag.
- 4 earth rods, copper plated steel.
- 1 x 5 meter black cable.
- 1 x 40 meter red cable.
- 2 x 20 meter cable (1 blue and 1 green).
- 1 x 5 meter green cable to connect to the grounding system.
- 1 hammer.
- 1 reel tape measure 50 m.
- Dimensions: 570 x 220 x 160 mm. Weight: 7.7 kg.
- Connection wire to supply the charger 200-240 V with a 12 V battery.





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