



USE GUIDE FOR **DIES**



MANUFACTURER OF SAFETY AND CONNECTION MATERIAL



OFFICE AND WAREHOUSE

C/ Thomas Alva Edison, 16-17
Pol. Industrial Plans d'Arau
08787 La Pobla de Claramunt (Barcelona) Spain

FACTORY AND LABORATORY

C/ Thomas Alva Edison, 12-13
Pol. Industrial Plans d'Arau
08787 La Pobla de Claramunt (Barcelona) Spain

CUSTOMER SERVICE

Tel. +34 93 808 79 80
export@sofamel.es

www.sofamel.com

Sofamel S.L. is a Spanish company dedicated to the production of electrical material of connection as well as safety and electrical protection material.

Sofamel's main objective has been to reach a high degree of specialization with the aim of providing a global solution for our clients. The same backed up by strict quality standards and by important investments in machinery and design for the manufacturing of all those products that our factory produces. This has allowed us to offer one of the most extensive ranges of articles that exists on the market.

Our commitment with excellent quality work allows our company to own the quality management system certificate under standard UNE-EN ISO 9001:2015 and R+D+i certificate under standard UNE 166002:2021, both duly granted by the Spanish Association for Standardization and Certification (AENOR).



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CABLE LUGS AND TUBULAR CONNECTORS

DIE	COPPER								ALUMINIUM			
  HD5												
	T	TL	T45°	T90°	TT	TPE	CP	M	MAL	TBE	TBES	
Cross-section (mm²)	Ref. dies			Footprint width (mm)					Ref. dies	Footprint width (mm)		
10	HD5-07			7					-	-		
16	HD5-08								HD5-10		-	
25	HD5-10								HD5-11		7	
35	HD5-11								HD5-13		-	
50	HD5-13			5					HD5-14	-		
70	HD5-14								HD5-17		5	
95	HD5-17			5					HD5-18	7		
120	HD5-18								HD5-21		5	
150	HD5-20								HD5-25		-	
185	HD5-22								-		-	
240	HD5-25								-		-	

TDT CABLE LUGS

DIE	COPPER		
  HD5	 TDT		
Cross-section (mm ²)	Ref. dies	Footprint width (mm)	
50	HD5-14	5	
70	HD5-14		
95	HD5-18		
120	HD5-20		
150	HD5-22		
185	HD5-22		

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RJU, BT, RBT, RJA, TBF, AND TBEM CONNECTORS AND CABLE LUGS

DIE	COPPER		ALUMINIUM / BIMETALLICS	
 HD5	 RJU		 BT RBT RJA TBF TBEM	
Cross-section (mm²)	Ref. dies	Footprint width (mm)	Ref. dies	Footprint width (mm)
25	HD5-20	5	HD5-20	5
35				
50				
70			HD5-25	-
95				
120	HD5-25	-	-	-
150			-	-
185	-	-	HD5-20	5
30				
56				
78			HD5-25	-
110				

BIMETALLIC CABLE LUGS TDC/S AND TDC/A

DIE			
			
HD5	TDC/S		
Cross-section (mm²)	Ref. dies	Footprint width (mm)	
16	-	-	
25			
35			
50	HD5-20	5	
70			
95			
120	HD5-25		
150			
30	HD5-20		
54,6			
56			
78			
80	HD5-25		
110			
145			

COMPRESSION CLAMPS

DIE				
 CDC5	 CRC CRA CRS			
Reference	Ref. dies	Footprint width (mm)		
CRC-3	CDC5-25	9		
CRC-4				
CRC-5				
CRC-6	CDC5-35			
CRC-7				
CRA-1				
CRS-1				
CRC-8	CDC5-70			
CRC-9				
CRA-2				
CRS-0				

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CABLE LUGS AND TUBULAR CONNECTORS

DIE	COPPER									ALUMINIUM		
  HD6	 T	 TL	 T45°	 T90°	 TT	 TPE	 CP	 M	 MAL	 TBE	 TBES	
Cross-section (mm²)	Ref. dies			Footprint width (mm)			Ref. dies		Footprint width (mm)			
10	HD6-07			7			-		-			
16	HD6-08			12			HD6-10		12			
25	HD6-10						HD6-11					
35	HD6-11						HD6-13					
50	HD6-13						HD6-14					
70	HD6-14			10			HD6-17		9			
95	HD6-17			9			HD6-18		8			
120	HD6-18			8			HD6-21		12			
150	HD6-20			6			HD6-25		5			
185	HD6-22						HD6-28					
240	HD6-25			5			-		-			
300	HD6-28											

TDT CABLE LUGS

DIE	COPPER	
  HD6	 TDT	
Cross-section (mm²)	Ref. dies	Footprint width (mm)
50		
70	HD6-14	10
95	HD6-18	8
120	HD6-20	
150		
185	HD6-22	6
240	HD6-28	5

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RJU, BT, RBT, RJA, TBF, AND TBEM CONNECTORS AND CABLE LUGS

DIE	COPPER		ALUMINIUM / BIMETALLICS				
  HD6	 RJU		 BT RBT RJA TBF TBEM				
Cross-section (mm²)	Ref. dies	Footprint width (mm)	Ref. dies		Footprint width (mm)		
25	HD6-20	6	HD6-20		6		
35			HD6-20				
50			HD6-20				
70			HD6-20				
95			HD6-20				
120	HD6-25	5	HD6-25		5		
150			HD6-25				
185			-		-		
30	-	-	HD6-20		6		
56			HD6-20				
78			HD6-20				
110			HD6-25		5		

BIMETALLIC CABLE LUGS TDC/S AND TDC/A

DIE		
  HD6	 TDC/S	
Cross-section (mm²)	Ref. dies	Footprint width (mm)
16	-	-
25		
35		
50		
70	HD6-20	6
95	HD6-25	5
120		
150		
30	HD6-20	6
54,6		
56		
78		
80	HD6-25	5
110		
145		

COMPRESSION CLAMPS

DIE				
 CD13	 CRC CRA CRS			
Reference	Ref. dies	Footprint width (mm)		
CRC-3	CDC6-25	5		
CRC-4				
CRC-5				
CRC-6	CDC6-35			
CRC-10	CDC6-95			
CRC-11				
CRC-12				
CRC-7	CDC6-35			
CRA-1				
CRS-1				
CRC-8	CDC6-70			
CRC-9				
CRA-2				
CRS-0				

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CRIMPING DIES - SERIES 130



DIN STANDARD

DIE	COPPER		ALUMINIUM	
				
MK-C	TCD (DIN 46235)	MCD (DIN 46267)	TBE/D (DIN 46329)	
Cross-section (mm²)	Ref. dies	Footprint width (mm)	Ref. dies	Footprint width (mm)
10	MK6-C	7	-	-
16	MK8-C		-	-
25	MK10-C	12	MK12-C	12
35	MK12-C	14	MK14-C	
50	MK14-C	12	MK16-C	
70	MK16-C		MK18-C	
95	MK18-C		MK22-C	
120	MK20-C		MK25-C	10
150	MK22-C		MK28-C	
185	MK25-C	10	MK32-C	10
240	MK28-C		MK34-C	
300	MK32-C	7	MK34-C	7

CABLE LUGS AND TUBULAR CONNECTORS

DIE	COPPER								ALUMINIUM		
 	       								  		
HD13	T	TL	T45°	T90°	TT	TPE	CP	M	MAL	TBE	TBES
Cross-section (mm²)	Ref. dies			Footprint width (mm)					Ref. dies	Footprint width (mm)	
10	HD13-07			7					-	-	
16	HD13-08										
25	HD13-10			12					HD13-10	12	
35	HD13-11										
50	HD13-13										
70	HD13-14										
95	HD13-17										
120	HD13-18										
150	HD13-20			10					HD13-21	10	
185	HD13-22										
240	HD13-25										
300	HD13-28										
400	HD13-32			7					HD13-34	7	
									-	-	

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TDT CABLE LUGS

DIE	COPPER	
  HD13	 TDT	
Cross-section (mm²)	Ref. dies	Footprint width (mm)
50	HD13-14	12
70		
95		
120		
150	HD13-22	10
185		
240	HD13-28	7
300	HD13-32	
400	HD13-34	

COPPER AND ALUMINUM CONNECTORS AND CABLE LUGS RJU, BT, RBT, RJA, TBF, AND TBEM

DIE	COPPER		ALUMINIUM / BIMETALLICS				
  HD13	 RJU		 BT RBT RJA TBF TBEM				
Cross-section (mm²)	Ref. dies	Footprint width (mm)	Ref. dies		Footprint width (mm)		
25	HD13-20	12	HD13-20		12		
35							
50							
70							
95	HD13-25	7	HD13-25				
120			HD13-32				
150	HD13-32	7	HD13-20				
185			HD13-25				
240	-	-	HD13-32				
30			HD13-20				
56			HD13-25				
78			HD13-32				
110							
180							

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BIMETALLIC CABLE LUGS TDC/S AND TDC/A HEXAGONAL CRIMPING

DIE		
  HD13	 TDC/S	
Cross-section (mm²)	Ref. dies	Footprint width (mm)
50	HD13-20	12
70		
95		
120		
150		
185	HD13-25	
240		
30	HD13-32	
54,6		
56		
78		
80		
110	HD13-20	
145		
180	HD13-25	
	HD13-32	7

COMPRESSION CLAMPS

DIE								
 HD13	 CRC			 CRA CRS				
	Reference COPPER	Ref. dies	Footprint width (mm)	Reference ALUMINIUM	Ref. dies	Footprint width (mm)		
	CRC-3	CD13-25	35	CRS-0	CD13-70	35		
	CRC-4				CRA-2			
	CRC-5				CRS-1			
	CRC-6	CD13-35			CRA-1		CD13-35	
	CRC-7				CRS-3			
	CRC-8	CD13-70			CRA-3		CD13-120 AL	
	CRC-9				CRS-8			
	CRC-10	CD13-95			CRA-3A			
	CRC-11				CRS-9			
	CRC-12				CRA-4		CD13-300	
	CRC-13	CD13-150			CRS-10			
	CRC-14				CRS-11			
	CRC-15				CRS-12			
	CRC-16	CD13-300						

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DEEP PUNCHING CRIMPING DIES

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TDC/S CABLE LUGS

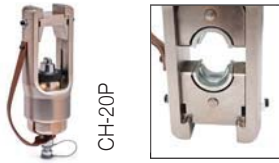
ADAPTER	DIE	PUNCH				
						
						
AD	MP-L	PP	TDC/S			
Cross-section (mm ²)			Ref. adapters	Ref. dies	Ref. punches	Ref. mark
16	AD150			MP35L	PP35	0E
25						
35						
50				MP95L	PP95	1E
70						
95	AD240			MP150L	PP150	2E
120						
150				MP240L	PP240	4E
185						
240						

ALUMINIUM AND BIMETALLIC CONNECTORS AND CABLE LUGS

ADAPTER	DIES		PUNCH	ALUMINIUM				ALUMINIUM			
											
											
AD	MP-L	MP-S	PP	BT	RBT	TBF	TBEM	RJA			
Cross-section (mm²)				Ref. adapt.	Ref. dies	Ref. punches	Ref. mark	Ref. adapt.	Ref. dies	Ref. punches	Ref. mark
16				AD150	MP95L	PP95	1E	AD150	MP95S	PP95	1E
25											
35											
50											
70											
95				AD240	MP150L	PP150	2E	AD240	MP240S	PP240	4E
120											
150											
185											
240											

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HEXAGONAL CRIMPING DIES - **SERIES 200**

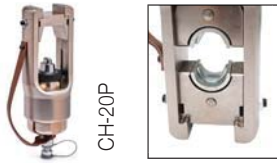


CABLE LUGS AND TUBULAR CONNECTORS			
DIES	ADAPTER	COPPER	
 HD13	 HD20	 AD-20T-13T HEX	 T TL T45° T90° TT TPE CP M
Cross-section (mm²)	Ref. adapters	Ref. dies	Footprint width (mm)
10	AD-20T-13T HEX	HD13-07	7
16		HD13-08	12
25		HD13-10	
35		HD13-11	
50		HD13-13	
70		HD13-14	
95		HD13-17	
120		HD13-18	
150		HD13-20	
185		HD13-22	
240		HD13-25	
300		HD13-28	10
400		HD13-32	7
500		HD20-38	17
630	-	HD20-44	

CABLE LUGS AND TUBULAR CONNECTORS			
DIE	ADAPTER	ALUMINIUM	
 HD13	 AD-20T-13T HEX	 MAL TBE TBES	
Cross-section (mm²)	Ref. adapters	Ref. dies	Footprint width (mm)
10	-	-	-
16	AD-20T-13T HEX	HD13-10	12
25		HD13-11	
35		HD13-13	
50		HD13-14	
70		HD13-17	
95		HD13-18	
120		HD13-21	10
150		HD13-25	
185		HD13-28	7
240		HD13-32	
300		HD13-34	

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HEXAGONAL CRIMPING DIES - **SERIES 200**

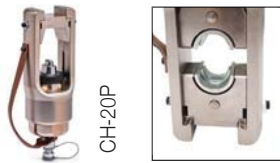


DIN STANDARD				
DIES	ADAPTER	COPPER		
 HD13	 HD20	 AD-20T-13T HEX	 TCD (DIN 46235)	 MCD (DIN 46267)
Cross-section (mm²)	Ref. adapters	Ref. dies	Footprint width (mm)	
10	AD-20T-13T HEX	MK6-C	7	
16		MK8-C		
25		MK10-C	12	
35		MK12-C	14	
50		MK14-C		
70		MK16-C	12	
95		MK18-C		
120		MK20-C		
150		MK22-C		
185		MK25-C		
240	-	MK28-C	10	
300		MK32-C	7	
400		MK38-200	17	
500		MK42-200		

DIN STANDARD				
DIES	ADAPTER	ALUMINIUM		
 HD13	 HD20	 AD-20T-13T HEX	 TBE/D (DIN 46329)	
Cross-section (mm²)	Ref. adapters	Ref. dies	Footprint width (mm)	
25	AD-20T-13T HEX	MK12-C	14	
35		MK14-C		
50		MK16-C	12	
70		MK18-C		
95		MK22-C		
120				
150		MK25-C	10	
185		MK28-C		
240		MK32-C	7	
300		MK34-C		
400	-	MK38-200	17	
500		MK44-200		

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HEXAGONAL CRIMPING DIES - **SERIES 200**



RJU CONNECTOR

DIE	ADAPTER	COPPER		
 HD13	 AD-20T-13T HEX	 RJU		
Cross-section (mm²)	Ref. adapters	Ref. dies	Footprint width (mm)	
25	AD-20T-13T HEX	HD13-20	12	
35				
50				
70				
95				
120				
150		HD13-25		
185				
240		HD13-32	7	

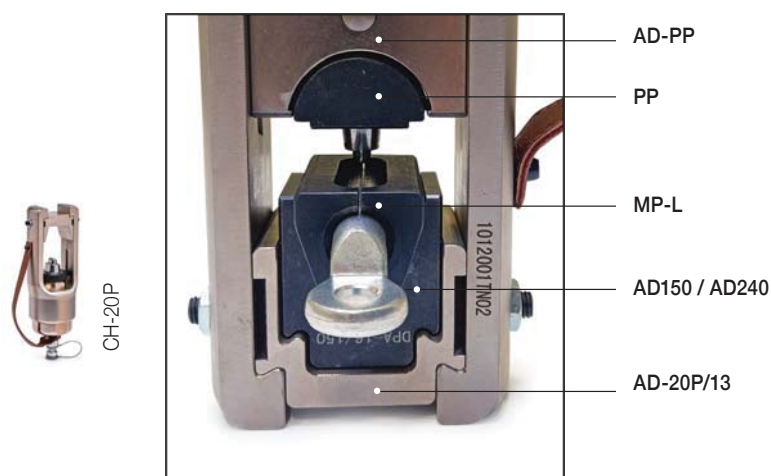
BT, RBT, RJA, TBF, TBEM, AND TDC CONNECTORS AND CABLE LUGS

DIES		ADAPTER									
											
HD13	HD20	AD-20T-13T HEX	BT	RBT	RJA	TBF	TBEM		TDC/S	TDC/A	
Cross-section (mm²)			Ref. adapters	Ref. dies	Footprint width (mm)	Cross-section (mm²)	Ref. adapt.	Ref. hexagonal die	Footprint width (mm)		
25			AD-20T-13T HEX	HD13-20	12	25	AD-20T-13T HEX	-	-		
35						35					
50						50					
70						70					
95						95					
120				HD13-25	120	HD13-20		12			
150					150	HD13-25					
185			HD13-32	7	185	HD13-32	7				
240					240						
300			-	HD20-40	17	300	-	HD20-40	17		
400						400		HD20-46			
500			AD-20T-13T HEX	HD13-20	12	500	AD-20T-13T HEX	HD20-46			
30						30					
56						54,6		HD13-20	12		
78						56		HD13-20	12		
110				HD13-25	7	78		AD-20T-13T HEX			
180				HD13-32		80					
						110			HD13-25		
					145	HD13-32	7				
					180						

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DEEP PUNCHING CRIMPING DIES

ACCORDING TO UNE 211024-2 AND NF C33-090-1 STANDARDS - **SERIES 200**



TDC/S AND TDC/A CABLE LUGS

ADAPTERS			DIE	PUNCH
				
AD-20P/13	AD	AD-PP	MP-L	PP

BIMETALLICS



TDC/S

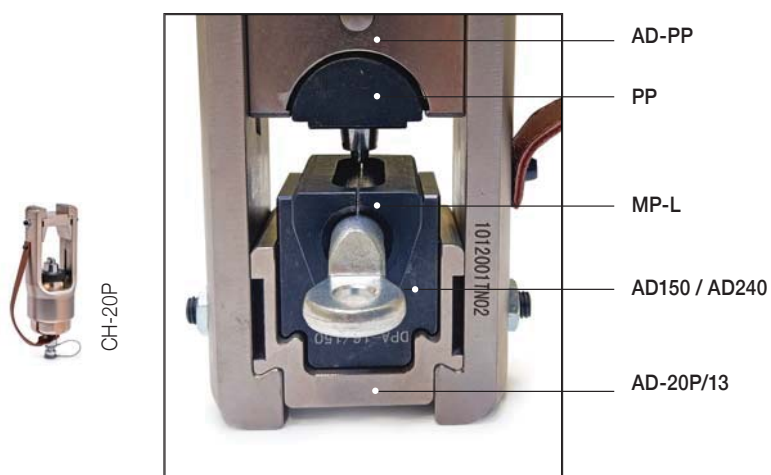
TDC/A

Cross-section (mm²)	Ref. adapters	Ref. adapters	Ref. deep punching dies	Ref. adapters	Ref. punches	Ref. mark
16	AD-20P/13	AD150	MP35L	AD-PP	PP35	0E
25						
35						
50		AD240	MP95L	PP95	1E	
70						
95						
120		DPA-300/630	MP150L	PP150	2E	
150						
185						
240	-	DPD-300/400L	-	PP300/400	5E	
300						
400						
500						

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DEEP PUNCHING CRIMPING DIES

ACCORDING TO UNE 211024-2 AND NF C33-090-1 STANDARDS - **SERIES 200**



BT, RBT, BF AND TBEM CONNECTORS AND TERMINALS

ADAPTERS			DIE	PUNCH
				
AD-20P/13	AD	AD-PP	MP-L	PP

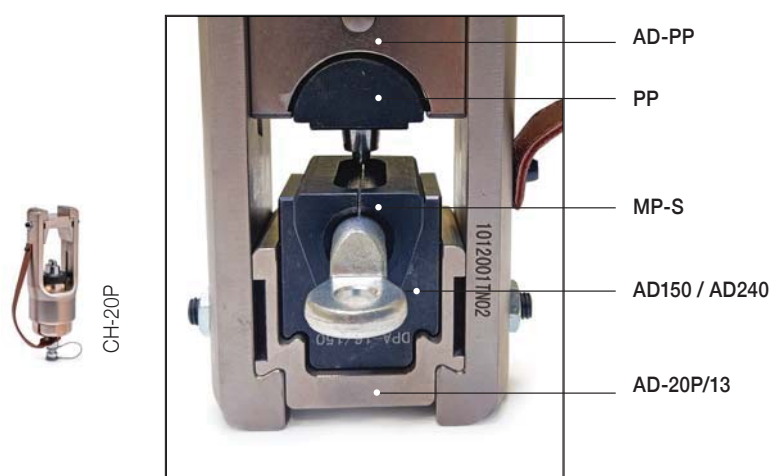
ALUMINIUM



Cross-section (mm²)	Ref. adapters	Ref. adapters	Ref. deep punching dies	Ref. adapters	Ref. punches	Ref. mark	
16	AD-20P/13	AD150	MP95L	AD-PP	PP95	1E	
25							
35							
50		AD240	MP240L		PP240	4E	
70							
95			DPD-300/400L		PP300/400	5E	
120							
150	-	DPA-300/630	-	-	-		
185							
240							
300	-	DPA-300/630	-	-	-	-	
400							
500							

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DEEP PUNCHING CRIMPING DIES ACCORDING TO UNE 211024-2 AND NF C33-090-1 STANDARDS - **SERIES 200**



RJA CONNECTORS

ADAPTERS			DIE	PUNCH
				
				
AD-20P/13	AD	AD-PP	MP-S	PP

ALUMINIUM



RJA

Cross-section (mm²)	Ref. adapters	Ref. adapters	Ref. deep punching dies	Ref. adapters	Ref. punches	Ref. mark
16	AD-20P/13	AD150	MP95S	AD-PP	PP95	1E
25						
35						
50		AD240	MP150S	AD-PP	PP150	2E
70						
95						
120						
150	-	DPA-300/630	MP240S	-	PP240	4E
185						
240						
300						
400	-	DPA-300/630	DPD-300/400S	-	PP300/400	5E
500						

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CIRCULAR DIES - **SERIES 200**



COMPRESSION CLAMPS								
DIE	ADAPTER							
 CD13	 AD-20T-13T HEX	 CRC			 CRA CRS			
Footprint width (mm)		Reference COPPER	Ref. adapters	Ref. dies	Reference ALUMINIUM	Ref. adapters	Ref. dies	
35		CRC-3	AD-20T-13T HEX	CD13-25	CRS-0	AD-20T-13T HEX	CD13-70	
		CRC-4			CRA-2		CD13-35	
		CRC-5			CRS-1			
		CRC-6		CRA-1	CD13-70			CD13-120 AL
		CRC-7		CRS-3				
		CRC-8		CRA-3				
		CRC-9		CRS-8	CD13-95		CD13-300	
		CRC-10		CRA-3A				
		CRC-11		CRS-9				
		CRC-12		CRA-4				
		CRC-13		CRS-10				
		CRC-14		CRS-11				
		CRC-15		CRS-12				
		CRC-16		CD13-300				

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HEXAGONAL AND CIRCULAR CRIMPING DIES - **SERIES 250**



CABLE LUGS AND TUBULAR CONNECTORS										
DIES		ADAPTER	COPPER							
										
HD13	HD25	AD-25H-13H	T	TL	T45°	T90°	TT	TPE	CP	M
Cross-section (mm²)			Ref. adapters	Ref. dies			Footprint width (mm)			
10			AD-25H/13H	HD13-07			7			
16				HD13-08			12			
25				HD13-10						
35				HD13-11						
50				HD13-13						
70				HD13-14						
95				HD13-17						
120				HD13-18						
150				HD13-20						
185				HD13-22						
240				HD13-25						
300				HD13-28			10			
400				HD13-32			7			
500			-	HD25-38			17			
630				HD25-44						

CABLE LUGS AND TUBULAR CONNECTORS				
DIE		ADAPTER		
				 
HD13	MK	AD-25H-13H	MAL	TBE TBES
Cross-section (mm²)		Ref. adapters	Ref. dies	Footprint width (mm)
16		AD-25H/13H	HD13-10	12
25			HD13-11	
35			HD13-13	
50			HD13-14	
70			HD13-17	
95			HD13-18	
120			HD13-21	
150			HD13-25	
185			HD13-28	10
240			HD13-32	7
300			MK34-230	17

USE GUIDE FOR **DIES**

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DIN STANDARD				
DIE	ADAPTER	COPPER		
 MK	 AD-25H-13H	 TCD (DIN 46235)	 MCD (DIN 46267)	
Cross-section (mm ²)	Ref. adapters	Ref. dies	Footprint width (mm)	
10	AD-25H/13H	MK6-C	7	
16		MK8-C		
25		MK10-C	12	
35		MK12-C	14	
50		MK14-C	12	
70		MK16-C		
95		MK18-C		
120		MK20-C		
150		MK22-C		
185		MK25-C		
240	-	MK28-C	10	
300		MK32-C	7	
400		MK38-250	17	
500		MK42-250		

DIN STANDARD				
DIES	ADAPTER	ALUMINIUM		
  MK HD25	 AD-25H-13H	 TBE/D (DIN 46329)		
Cross-section (mm ²)	Ref. adapters	Ref. dies	Footprint width (mm)	
25	AD-25H/13H	MK12-C	14	
35		MK14-C	12	
50		MK16-C		
70		MK18-C		
95		MK22-C		
120		MK22-C		
150		MK25-C		
185		MK28-C	10	
240		MK32-C	7	
300	-	MK34-230	17	
400		MK38-250		
500		MK44-250		

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COPPER RJU CONNECTORS				
DIE	ADAPTER	COPPER		
 HD13	 AD-25H-13H	 RJU		
Cross-section (mm²)	Ref. adapters	Ref. dies	Footprint width (mm)	
25	AD-25H/13H	HD13-20	12	
35				
50				
70		HD13-25	7	
95				
120				
150	-	HD13-32	7	
185				
240				

BT, RBT, RJA, TBF AND TBEM ALUMINIUM AND BIMETALLIC CONNECTORS AND CABLE LUGS				
DIES	ADAPTER	ALUMINIUM		
 HD13	 AD-25H-13H	 BT RBT RJA TBF TBEM		
Cross-section (mm²)	Ref. adapters	Ref. dies	Footprint width (mm)	
25	AD-25H/13H	HD13-20	12	
35				
50				
70		HD13-25	7	
95				
120				
150	-	HD13-32	7	
185				
240				
300	AD-25H/13H	HD25-40	17	
400				
500				
30	AD-25H/13H	HD13-20	12	
56				
78				
110				
180	-	HD13-32	7	

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BIMETALLIC CABLE LUGS TDC/S AND TDC/A

DIES	ADAPTER	BIMETALLIC		
  HD13 HD25	 AD-25H-13H	 TDC/S	 TDC/A	
Cross-section (mm²)	Ref. adapters	Ref. dies	Footprint width (mm)	
50	AD-25H/13H	HD13-20	12	
70		HD13-25		
95		HD13-32		
120			7	
150				
185	-	HD25-40	26	
240		HD25-46		
300			12	
400		HD13-20		
500		HD13-25		
30		HD13-32		
54,6				
56				
78				
80				
110				
145			7	
180				

COMPRESSION CLAMPS

DIES		ADAPTER						
 HD13	 HD25	 AD-25H-13H	 CRC			 CRA  CRS		
Compr. width (mm)			Ref. COPPER	Ref. adapters	Ref. dies	Ref. ALUMINIUM	Ref. adapters	Ref. dies
35			CRC-3	AD-25H/13H	CD13-25	CRS-0	AD-25H/13H	CD13-70
			CRC-4			CRA-2		
			CRC-5			CRS-1		
			CRC-6		CD13-35	CRA-1		CD13-35
			CRC-7			CRS-3		
			CRC-8		CD13-70	CRA-3		CD13-120 AL
			CRC-9			CRS-8		
			CRC-10		CD13-95	CRA-3A		
			CRC-11			CRS-9		
			CRC-12		CD13-150	CRA-4		CD13-300
			CRC-13			CRS-10		
			CRC-14			CRS-11		
			CRC-15		CD13-300	CRS-12		
			CRC-16					

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USE GUIDE FOR **DIES**

INDEX BY CODES

Code	Ref.	Code	Ref.	Code	Ref.
DIES		402005	HD13-14 70CU/50AL	402026	MK32-C
401012	CDC5-25 25-25CU/35-1	402006	HD13-17 95CU/70AL	447159	MK34-230
401013	CDC5-35 35-35CU/AL	402007	HD13-18 120CU/95AL	20306001	MK42-250
401014	CDC5-70 70-70CU/70-5	402008	HD13-20 150CU	406001	MP-35L
407013	CDC6-25	402009	HD13-21 120AL	406003	MP-95L
407014	CDC6-35	402010	HD13-22 185CU/120AL	406004	MP-95S
407015	CDC6-70	402011	HD13-25 240CU/150AL	406006	MP-150L
407016	CDC6-95	402012	HD13-28 300CU/185AL	406007	MP-150S
402015	CD13-25	402013	HD13-32 400CU/240AL	406010	MP-240L
402016	CD13-35	402014	HD13-34 300AL	406011	MP-240S
402017	CD13-70	403005	HD20-40	406014	MP-400L
402018	CD13-95 CU	403006	HD20-46		
402019	CD13-150 CU	403001	HD25-38	ADAPTERS	
402020	CD13-120 AL	447180	HD25-40	375000	AD-13U-13C
402021	CD13-300	403002	HD25-42	406000	AD-150
406014	DPD-300/400L	403003	HD25-44	406009	AD-240
401000	HD5-07 10CU	403004	HD25-46	406016	AD-20P/13
401001	HD5-08 16CU	407000	HD6-07	375001	AD-20T-13T HEX
401002	HD5-10 25CU/16AL	407001	HD6-08	403000	AD-25H/13H
401003	HD5-11 35CU/25AL	407002	HD6-10	375002	AD-PP
401004	HD5-13 50CU/35AL	407003	HD6-11	406013	DPA-300/630
401005	HD5-14 70CU/50AL	407004	HD6-13		
401006	HD5-17 95CU/70AL	407005	HD6-14	PUNCHES	
401007	HD5-18 120CU/95AL	407006	HD6-17	406002	PP-35 0E
401008	HD5-20 150CU	407007	HD6-18	406005	PP-95 1E
401009	HD5-21 120AL	407008	HD6-20	406008	PP-150 2E
401010	HD5-22 185CU/120AL	407009	HD6-21	406012	PP-240 4E
401011	HD5-25 240CU/150AL	407010	HD6-22	406015	PP-400 5E
402000	HD13-07 10CU	407011	HD6-25		
402001	HD13-08 16CU	407012	HD6-28		
402002	HD13-10 25CU/16AL	402022	MK12-C		
402003	HD13-11 35CU/25AL	402023	MK22-C		
402004	HD13-13 50CU/35AL	402024	MK25-C		
		402025	MK28-C		

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