



HVS High Variable System Modular System Overview

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Introduction

HTS Portrait

HTS a brand of Tyco Electronics has knowledge in developing and manufacturing heavy duty connectors for more than 50 years. Customers in industrial machinery, electrical power utilities and specially railway trust in the extremely high quality standards and the greatest product offer. The product portfolio includes standard products, latest innovations as well as customer specific solutions to fulfill the highest customer requirements.

With production lines in strategic countries and regions Tyco Electronics as a local content partner is setting benchmarks in the market and is also offering a great customer service with an individual support from experts.

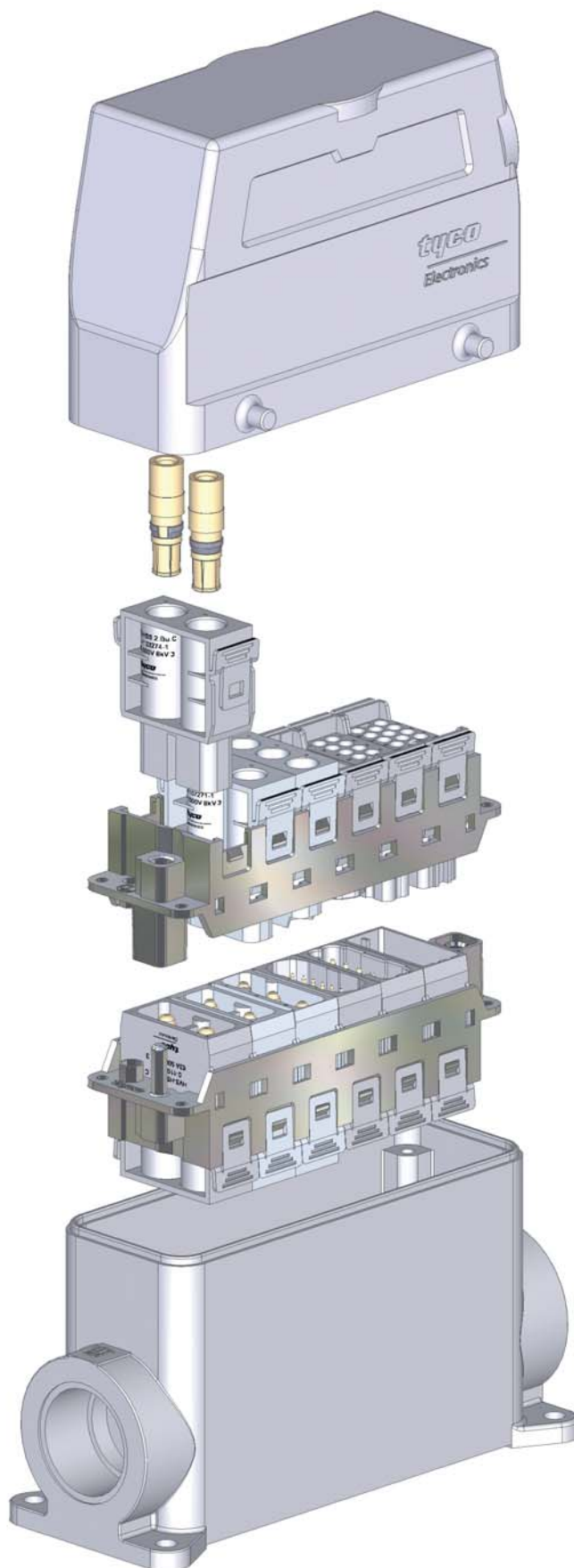
HVS Modular System

The HVS Modular System (high variable system) offers a maximum of flexibility and reliability with a minimum of installation or maintenance effort.

This system enables a realization of application specific connectors and the combination variety of the different inserts leads to reduced costs and less mounting space. The HVS range comprises more than 25 different modules and the particular zinc frames which can then be mounted into all hoods and housings from Tyco Electronics. There is no tooling needed to put the modules in and out of the frame due to lever snap-in technology.

Up to 6 modules can be used in a size 8 frame whereby the customer can individually define the combination of modules.

Signal, high current and high voltage, high density, Fire Wire, RJ45, USB, coax, twisted pair, high speed and also pneumatic modules are only some of the available modules. Contact cavities can be loaded individually which leads to an additional cost reduction.



Technical Support

Customers appreciate the individual support from technical specialists.

If you can't find a business card here please contact your local Tyco Electronics organisation for technical support or further information.

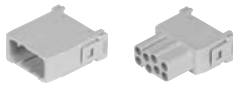
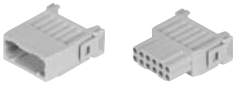
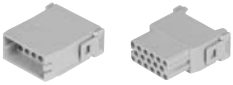
Overview Module Inserts

Type	HVS-HF8	HVS-HF6	HVS-GND	HVS-HV
				
max. Voltage V	1000	1000 (150 HN.D)		5000
max. Current A	250	150		16
No. of Contacts	1	2 (HF6)+ 8 (HN.D)	1	2
Male Insert	HVS-HF.08.1.Sti.C	HVS-HF.06.2+8.Sti.C	HVS-GND	HVS-HV.2.Sti.C
Part No.	0-1103248-1	0-1103242-1	0-1103229-1	0-1103156-1
Female Insert	HVS-HF.08.1.Bu.C	HVS-HF.06.2+8.Bu.C	HVS-GND	HVS-HV.2.Bu.C
Part No.	0-1103249-1	0-1103243-1	0-1103229-1	0-1103157-1
Main Kontakt	Crimp HF8	Crimp HF6	Crimp HF6	Crimp HVT
Diameter mm ²	6-70 (opt. Crimp Ferrule)	6-50 (opt. Crimp Ferrule)	6-35 (opt. Crimp Ferrule)	0,13-4
Male Insert	Crimp HF8	Crimp HF6	Crimp HF6	Pin Ag 0,13-0,4 mm ²
Part No.	0-1103037-1 (+ Crimp Ferrule)	0-1110948-2 (+ Crimp Ferrule)	0-1110948-2 (+ Crimp Ferrule)	6-1105300-1
Male Insert				Pin Ag 0,5 mm ²
Part No.				1-1105300-1
Male Insert				Pin Ag 0,75-1,0 mm ²
Part No.				2-1105300-1
Male Insert				Pin Ag 1,5 mm ²
Part No.				3-1105300-1
Male Insert				Pin Ag 2,5 mm ²
Part No.				4-1105300-1
Male Insert				Pin Ag 4,0 mm ²
Part No.				5-1105300-1
Female Insert				Socket Ag 0,13-0,4 mm ²
Part No.	0-1103038-3 (+ Crimp Ferrule)	0-1110949-2 (+ Crimp Ferrule)	0-1110949-2 (+ Crimp Ferrule)	6-1105301-1
Female Insert				Socket Ag 0,5 mm ²
Part No.				1-1105301-1
Female Insert				Socket Ag 0,75-1,0 mm ²
Part No.				2-1105301-1
Female Insert				Socket Ag 1,5 mm ²
Part No.				3-1105301-1
Female Insert				Socket Ag 2,5 mm ²
Part No.				4-1105301-1
Female Insert				Socket Ag 4,0 mm ²
Part No.				5-1105301-1
Hand Tool incl. Die Set	HSS-CSZ.2,5-70 mm ²	HSS-CSZ.2,5-70 mm ²	HSS-CSZ.2,5-70 mm ²	RSZ.HE-HN.D-HVT
Part No.	1-1105653-8 + X-1105653-8	1-1105653-8 + X-1105653-8	1-1105653-8 + X-1105653-8	1-1105851-8
Insertion Tool				EWZG-RSZ
Part No.				0-1102855-6
Extraction Tool				AWZG-RSZ
Part No.				0-1102855-3
Accessories	Crimp Ferrule HF8	Crimp Ferrule HF6	Crimp Ferrule HF6	
	Crimp Ferrule 6 mm ²	Crimp Ferrule 6 mm ²	Crimp Ferrule 6 mm ²	
	0-1110952-1	0-1108807-1	0-1108807-1	
	Crimp Ferrule 10 mm ²	Crimp Ferrule 10 mm ²	Crimp Ferrule 10 mm ²	
	0-1110952-2	0-1108807-2	0-1108807-2	
	Crimp Ferrule 16 mm ²	Crimp Ferrule 16 mm ²	Crimp Ferrule 16 mm ²	
	0-1110952-3	0-1108807-3	0-1108807-3	
	Crimp Ferrule 25 mm ²	Crimp Ferrule 25 mm ²	Crimp Ferrule 25 mm ²	
	0-1110952-5	0-1108807-4	0-1108807-4	
	Crimp Ferrule 35 mm ²	Crimp Ferrule 35 mm ²	Crimp Ferrule 35 mm ²	
	0-1110952-7	0-1108807-5	0-1108807-5	
	Crimp Ferrule 50 mm ²	Crimp Ferrule 50 mm ²	Crimp Ferrule 50 mm ²	
	0-1110952-9	0-1108807-6	0-1108807-6	
	Crimp Ferrule 70 mm ²			
	1-1110952-0			
		HN.D Contacts & Tooling see HVS-HN.D.12		

Overview Module Inserts

HVS-HSS.2	HVS-HSK.2	HVS-HSK.3	HVS-HE.5-SC	HVS-HE.6
				
500 63 2	1000 40 2	400/690 40 3	400 16 5	500 16 6
HVS-HSS.2.Sti.C 0-1103275-1	HVS-HSK.2.Sti.C 0-1103270-1	HVS-HSK.3.Sti.C 0-1103272-1	HVS-HE.5.Sti.SC 0-1103133-1	HVS-HE.6.Sti.C 0-1103244-1
HVS-HSS.2.Bu.C 0-1103274-1	HVS-HSK.2.Bu.C 0-1103271-1	HVS-HSK.3.Bu.C 0-1103273-1	HVS-HE.5.Bu.SC 0-1103134-1	HVS-HE.6.Bu.C 0-1103245-1
Crimp HSS 2,5-16	Crimp HSK 1,5-10	Crimp HSK 1,5-10	Spring Clamp SC 0,14-2,5	Crimp HE/HA 0,5-4
Pin Ag 6,0 mm ² 3-1105150-1	Pin Ag 1,5 mm ² 1-1108757-1	Pin Ag 1,5 mm ² 1-1108757-1		Pin Ag Ag 0,5 mm ² 1-1105100-1
Pin Ag 10,0 mm ² 4-1105150-1	Pin Ag 2,5 mm ² 2-1108757-1	Pin Ag 2,5 mm ² 2-1108757-1		Pin Ag 0,75-1 mm ² 2-1105100-1
Pin Ag 16,0 mm ² 5-1105150-1	Pin Ag 4 mm ² 3-1108757-1	Pin Ag 4 mm ² 3-1108757-1		Pin Ag 1,5 mm ² 3-1105100-1
	Pin Ag 6 mm ² 4-1108757-1	Pin Ag 6 mm ² 4-1108757-1		Pin Ag 2,5 mm ² 4-1105100-1
	Pin Ag 10 mm ² 5-1108757-1	Pin Ag 10 mm ² 5-1108757-1		Pin Ag 4 mm ² 5-1105100-1
Socket Ag 6,0 mm ² 3-1105151-1	Socket Ag 1,5 mm ² 1-1108756-1	Socket Ag 1,5 mm ² 1-1108756-1		Socket Ag 0,5 mm ² 1-1105101-1
Socket Ag 10,0 mm ² 4-1105151-1	Socket Ag 2,5 mm ² 2-1108756-1	Socket Ag 2,5 mm ² 2-1108756-1		Socket Ag 0,75-1 mm ² 2-1105101-1
Socket Ag 16,0 mm ² 5-1105151-1	Socket Ag 4 mm ² 3-1108756-1	Socket Ag 4 mm ² 3-1108756-1		Socket Ag 1,5 mm ² 3-1105101-1
	Socket Ag 6 mm ² 4-1108756-1	Socket Ag 6 mm ² 4-1108756-1		Socket Ag 2,5 mm ² 4-1105101-1
	Socket Ag 10 mm ² 5-1108756-1	Socket Ag 10 mm ² 5-1108756-1		Socket Ag 4 mm ² 5-1105101-1
RSZ.BAS (+ Die Set) 1-1105850-8	RSZ.BAS (+ Die Set) 1-1105850-8	RSZ.BAS (+ Die Set) 1-1105850-8		RSZ.HE-HN.D-HVT 1-1105851-8
	EWZG-RSZ 0-1102855-6	EWZG-RSZ 0-1102855-6		EWZG-RSZ 0-1102855-6
AWZG-HSS-RSZ 0-1102855-5	AWZG-HSK-RSZ 0-1102855-8	AWZG-HSK-RSZ 0-1102855-8		AWZG-HE-Q5-RSZ 0-1102855-7
Die Sets	Die Sets	Die Sets		
Die 6+25 mm ² 1-1105652-8	Die 0,75-2,5 mm ² 0-1102789-1	Die 0,75-2,5 mm ² 0-1102789-1		
Die 10+16 mm ² 2-1105652-8	Die 4-10 mm ² 0-1102790-1	Die 4-10 mm ² 0-1102790-1		

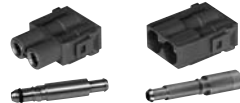
Overview Module Inserts

HVS-HE.6P	HVS-HE.8	HVS-HE.20	HVS-HN.D.12	HVS-HN.D.17
				
830 16 6	400 16 8	500 16 20	250 10 12	250 10 17
HVS-HE.6P.Sti.C 0-1103150-1	HVS-HE.8.Sti.C 0-1103140-1	HVS-HE.20.Sti.C 0-1103144-1	HVS-HN.D.12.Sti.C 0-1103277-1	HVS-HN.D.17.Sti.C 0-1103278-1
HVS-HE.6P.Bu.C 0-1103151-1	HVS-HE.8.Bu.C 0-1103141-1	HVS-HE.20.Bu.C 0-1103145-1	HVS-HN.D.12.Bu.C 0-1103276-1	HVS-HN.D.17.Bu.C 0-1103279-1
Crimp HE/HA 0,5-4	Crimp HE/HA 0,5-4	Crimp HE/HA 0,5-4	Crimp HN.D 0,14-2,5	Crimp HN.D 0,14-2,5
Pin Ag Ag 0,5 mm ² 1-1105100-1	Pin Ag Ag 0,5 mm ² 1-1105100-1	Pin Ag Ag 0,5 mm ² 1-1105100-1	Pin Ag 0,14-0,37 mm ² 1-1105050-1	Pin Ag 0,14-0,37 mm ² 1-1105050-1
Pin Ag 0,75-1 mm ² 2-1105100-1	Pin Ag 0,75-1 mm ² 2-1105100-1	Pin Ag 0,75-1 mm ² 2-1105100-1	Pin Ag 0,5 mm ² 2-1105050-1	Pin Ag 0,5 mm ² 2-1105050-1
Pin Ag 1,5 mm ² 3-1105100-1	Pin Ag 1,5 mm ² 3-1105100-1	Pin Ag 1,5 mm ² 3-1105100-1	Pin Ag 0,75-1 mm ² 3-1105050-1	Pin Ag 0,75-1 mm ² 3-1105050-1
Pin Ag 2,5 mm ² 4-1105100-1	Pin Ag 2,5 mm ² 4-1105100-1	Pin Ag 2,5 mm ² 4-1105100-1	Pin Ag 1,5 mm ² 4-1105050-1	Pin Ag 1,5 mm ² 4-1105050-1
Pin Ag 4 mm ² 5-1105100-1	Pin Ag 4 mm ² 5-1105100-1	Pin Ag 4 mm ² 5-1105100-1	Pin Ag 2,5 mm ² 5-1105050-1	Pin Ag 2,5 mm ² 5-1105050-1
Socket Ag 0,5 mm ² 1-1105101-1	Socket Ag 0,5 mm ² 1-1105101-1	Socket Ag 0,5 mm ² 1-1105101-1	Socket Ag 0,14-0,37 mm ² 1-1105051-1	Socket Ag 0,14-0,37 mm ² 1-1105051-1
Socket Ag 0,75-1 mm ² 2-1105101-1	Socket Ag 0,75-1 mm ² 2-1105101-1	Socket Ag 0,75-1 mm ² 2-1105101-1	Socket Ag 0,5 mm ² 2-1105051-1	Socket Ag 0,5 mm ² 2-1105051-1
Socket Ag 1,5 mm ² 3-1105101-1	Socket Ag 1,5 mm ² 3-1105101-1	Socket Ag 1,5 mm ² 3-1105101-1	Socket Ag 0,75-1 mm ² 3-1105051-1	Socket Ag 0,75-1 mm ² 3-1105051-1
Socket Ag 2,5 mm ² 4-1105101-1	Socket Ag 2,5 mm ² 4-1105101-1	Socket Ag 2,5 mm ² 4-1105101-1	Socket Ag 1,5 mm ² 4-1105051-1	Socket Ag 1,5 mm ² 4-1105051-1
Socket Ag 4 mm ² 5-1105101-1	Socket Ag 4 mm ² 5-1105101-1	Socket Ag 4 mm ² 5-1105101-1	Socket Ag 2,5 mm ² 5-1105051-1	Socket Ag 2,5 mm ² 5-1105051-1
RSZ.HE-HN.D-HVT 1-1105851-8	RSZ.HE-HN.D-HVT 1-1105851-8	RSZ.HE-HN.D-HVT 1-1105851-8	RSZ.HE-HN.D-HVT 1-1105851-8	RSZ.HE-HN.D-HVT 1-1105851-8
EWZG-RSZ 0-1102855-6	EWZG-RSZ 0-1102855-6	EWZG-RSZ 0-1102855-6	EWZG-RSZ 0-1102855-6	EWZG-RSZ 0-1102855-6
AWZG-HE-Q5-RSZ 0-1102855-7	AWZG-HE-Q5-RSZ 0-1102855-7	AWZG-HE-Q5-RSZ 0-1102855-7	AWZG-HN.D-RSZ 0-1102855-2	AWZG-HN.D-RSZ 0-1102855-2

Overview Module Inserts

[illegible]

Overview Module Inserts

Type	HVS-MVB.4		HVS-MM.17		HVS-Air.2
					
max. Voltage V	50	50	250		
max. Current A	10	5	10		
No. of Contacts	4 + Screen	8 + Screen	17		2
Male Insert	HVS-MVB.4.Sti.C	HVS-MVB.S20DF.8Sti.C	HVS-MM.17.Sti.C		HVS-Air.2.Sti
Part No.	0-1103251-1	0-1103258-1	0-1103280-1		0-1103246-1
Female Insert	HVS-MVB.4.Bu.C	HVS-MVB.S20DF.8.Bu.C	HVS-MM.17.Bu.C		HVS-Air.2.Bu
Part No.	0-1103253-1	0-1103259-1	0-1103281-1		0-1103247-1
Main Kontakt	Crimp HN.D	Crimp S20DF	Crimp HD.M		Pneumatic
Diameter mm ²	0,14-2,5	0,08-0,6	0,3-2,5		D = 4 mm
Male Insert	Pin Ag 0,14-0,37 mm ²	Pin Sn 0,08-0,2 mm ²	Pin Sn 0,3-0,56 mm ²		Pin 4 mm
Part No.	1-1105050-1	66507-9	1-1105000-3		0-1105354-1
Male Insert	Pin Ag 0,5 mm ²	Pin Sn 0,2-0,6 mm ²	Pin Sn 0,5-1,5 mm ²		
Part No.	2-1105050-1	66506-9	2-1105000-3		
Male Insert	Pin Ag 0,75-1 mm ²		Pin Sn 1,5-2,5 mm ²		
Part No.	3-1105050-1		4-1105000-3		
Male Insert	Pin Ag 1,5 mm ²				
Part No.	4-1105050-1				
Male Insert	Pin Ag 2,5 mm ²				
Part No.	5-1105050-1				
Male Insert					
Part No.					
Female Insert	Socket Ag 0,14-0,37 mm ²	Socket Sn 0,08-0,2 mm ²	Socket Sn 0,3-0,56 mm ²		Socket 4 mm with Valve
Part No.	1-1105051-1	66505-9	1-1105001-3		0-1105355-1
Female Insert	Socket Ag 0,5 mm ²	Socket Sn 0,2-0,6 mm ²	Socket Sn 0,5-1,5 mm ²		Socket 4 mm without Valve
Part No.	2-1105051-1	66504-9	2-1105001-3		0-1105355-2
Female Insert	Socket Ag 0,75-1 mm ²		Socket Sn 1,5-2,5 mm ²		
Part No.	3-1105051-1		4-1105001-3		
Female Insert	Socket Ag 1,5 mm ²				
Part No.	4-1105051-1				
Female Insert	Socket Ag 2,5 mm ²				
Part No.	5-1105051-1				
Female Insert					
Part No.					
Hand Tool incl. Die Set	RSZ.HE-HN.D-HVT	Certi-Crimp	RSZ.BAS (+ Die Set)		
Part No.	1-1105851-8	169424-1	1-1105850-8		
Insertion Tool	EWZG-RSZ	S20DF	EWZG-RSZ		
Part No.	0-1102855-6	726363-1	0-1102855-6		
Extraction Tool	AWZG-HN.D-RSZ	S20DF	AWZG-HD.M-RSZ		AWZG-AIR
Part No.	0-1102855-2	91285-1	0-1102855-1		0-1102985-1
Accessories			Die Sets		
			Die 0,2-2,5 mm ²		
			0-0539668-2		
			Alternative Contacts		
			Fibre		
			Coaxial		
			Crimp		
			High Current		
			Alternative Contacts and Tooling		
			please contact PIC		

[illegible]

Accessories

HVS Frames

The HVS zinc die-cast frames for the HVS modular inserts distinguish with a variety of innovative solutions.

Tyco Electronics developed one piece frames to prevent the loss of modules during the installation and maintenance process and offers a more reliable and user-friendly solution.

The moulded pin and socket contact for ground (first make last break) ensure additional stability and improved performance.

Up to 6 single modules fit into a size 8 frame whereby guidances in the frame and

the modules prevent twist locking. The frames also capture coding set for up to 36 different coding positions and prohibit mixing up of damages due to interchanging of adjoining connectors.

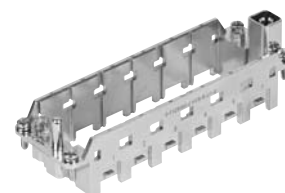
A tool-less insertion and extraction of modular inserts simplifies the handling and reduces tooling costs as well as installation time.

Customer can individually configure the frames which fit into all particular heavy duty connector hoods and housings from Tyco Electronics (see table).

Overview Frames

Size		No of Single Modules*	Part No.	
Housing	Frame			
3	3	2	Top	0-1103250-7
			Bottom	0-1103250-8
4	4	3	Top	0-1103250-5
			Bottom	0-1103250-6
6	6	4	Top	0-1103250-3
			Bottom	0-1103250-4
8	8	6	Top	0-1103250-1
			Bottom	0-1103250-2
10	2x6	8 (2x4)	Top	0-1103250-3
			Bottom	0-1103250-4
12	2x8	12 (2x6)	Top	0-1103250-1
			Bottom	0-1103250-2

* 1 double module = 2 single modules



Overview Cable Glands IP68

Size Metric Thread	Plastic		Metal		EMI	
	Cable Ø (mm)	Part No.	Cable Ø (mm)	Part No.	Cable Ø (mm)	Part No.
M16	4-8	1-1102771-6	5-10	1-1102770-6	5-9	1-1102772-6
M20	6-12	2-1102771-0	6-12	2-1102770-0	8-13	2-1102772-0
M25	10-14	2-1102771-5	13-18	2-1102770-5	11-16	2-1102772-5
M32	13-18	3-1102771-2	18-25	3-1102770-2	15-21	3-1102772-2
M40	18-25	4-1102771-0	22-32	4-1102770-0	19-27	4-1102772-0
M50	22-32	5-1102771-0	32-38	5-1102770-0	26-35	5-1102772-0

PG cable glands on request.

Cable Glands IP68

- Plastic, metal and EMI versions available
- EMI version to prevent electro magnetic interferences



Coding Set

- 36-position coding set
- Part No. 530341-1



Screen Termination

- Size 3: 0-1103256-1
- Size 4: 0-1103256-2
- Size 6: 0-1103256-3
- Size 8: 0-1103256-4



For questions or further information on additional accessories please contact our specialist in Product Information Center under +49-(0)6251-133-1999 or germany-pic@tycoelectronics.com

Accessories

Overview Crimp Contacts

Contacts	Pin Contact	Socket Contact	Contacts	Pin Contact	Socket Contact
HF8/HF6	 Screwed Contacts	 Screwed Contacts	HSK	 Screwed Contacts	 Screwed Contacts
HD.M	 Stamped Contacts	 Stamped Contacts	HE/HA	 Screwed Contacts	 Screwed Contacts
HVT	 Screwed Contacts	 Screwed Contacts	HN.D	 Screwed Contacts	 Screwed Contacts
HSS	 Screwed Contacts	 Screwed Contacts	S20DF	 Stamped Contacts	 Stamped Contacts

Hand Crimping Tools

Contacts	Hand Crimping Tool	Part No.	Locator/Die	Part No.	Insertion Tool	Part No.	Extraction Tool	Best.-Nr.
								
HF8	HSS-CSZ.2,5-70 mm ²	1-1105653-8		X-1105653-8	-	-	-	-
HF6	HSS-CSZ.2,5-70 mm ²	1-1105653-8		X-1105653-8	-	-	-	-
HVT	RSZ.HE-HN.D-HVT	1-1105851-8	included		EWZG-RSZ	0-1102855-6*	AWZG-RSZ	0-1102855-3*
HSS	RSZ.BAS	1-1105850-8*	Die 6+25 mm ²	1-1105652-8*			AWZG-HSS-RSZ	0-1102855-5
			Die 10+16 mm ²	2-1105652-8				
HSK	RSZ.BAS	1-1105850-8*	Die 0,75-2,5 mm ²	0-1102789-1	EWZG-RSZ	0-1102855-6*	AWZG-HSK-RSZ	0-1102855-8
			Die 4-10 mm ²	0-1102790-1				
HE/HA	RSZ.HE-HN.D-HVT	1-1105851-8	included		EWZG-RSZ	0-1102855-6*	AWZG-RSZ	0-1102855-7
HN.D	RSZ.HE-HN.D-HVT	1-1105851-8	included		EWZG-RSZ	0-1102855-6*	AWZG-HN.D-RSZ	0-1102855-2
S20DF	Certi-Crimp	169424-1	included		S20DF	726363-1	S20DF	91285-1
HD.M	RSZ.BAS	1-1105850-8	Die 0,2-2,5 mm ²	0-0539668-2	EWZG-RSZ	0-1102855-6*	AWZG-HD.M-RSZ	0-1102855-1
Quadrax	Quad. Contacts	601966-1	Quad. Contacts	8-1579013-9	-	-	Quad. Contacts	1738894-1

see picture

Semi Automatic Crimping Machine

- SAFETY CRIMP. PRESS SSC-2FP
Part No. 0-1481004-7
- Adapter for all RSZ Die Sets (see also
Hand Crimping Tool)
Part No. 1579000-7



For questions or further information on additional accessories please contact our specialist in Product Information Center under +49-(0)6251-133-1999 or germany-pic@tycoelectronics.com

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