



HDE/HDS/EFP Series

Pin-Configuration Selection Guide



Electrical Equipment Corporation



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Pin-Configuration Selection Guide for HDE, HDS, & EFP

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Service Voltage Ratings: IEC & NEC

Contact/Wire Sizes in AWG & Metric (mm²)

& Grounding Method Identification

Grounding Contact Termination Symbol



Service Voltage Ratings

IEC Ratings

Symbol	DC Volts	AC Volts
instrumentation	1000	1000
A	1000	1000
D	1250	1000
E	1750	1250
B	2450	1750
C	4200	3000

NEC Ratings

Symbol	DC Volts	AC Volts
instrumentation	-	-
A	250240	
D	600600	
E	600600	
B	600600	
C	600600	

NOTE: IEC Service Voltage Ratings are not for circuit-breaking applications, frequency listing at 50, 60, and 400Hz

Contact Symbol/Wire Size

Multipin Contact Sizes

Contact Symbols									
Wire Size	18 AWG	16 AWG	12 AWG	10 AWG	8 AWG	4 AWG	1/0 AWG	4/0 AWG	350 MCM
Metric (mm ²)	1.0 mm ²	1.3 mm ²	3.3 mm ²	5.2 mm ²	7.6 mm ²	21 mm ²	54 mm ²	109 mm ²	185 mm ²

Single Pole Contact Sizes

Contact Symbols										
Wire Size	4/0 AWG	262 MCM	313 MCM	373 MCM	444 MCM	500 MCM	535 MCM	646 MCM	777 MCM	1111 MCM
Metric (mm ²)	109 mm ²	132 mm ²	159 mm ²	189 mm ²	227 mm ²	240 mm ²	273 mm ²	326 mm ²	394 mm ²	562 mm ²

Electrical Service Ratings

Insert Arrangement Service Rating - Table 1

Each insert plan form has a factory designated working voltage rating. The voltage allowable through the contacts, male and female, is limited by the dielectric separation between each contact and the nearest conductor (adjacent contacts and the connector shell).

A letter in Column 1 represents voltage ratings, with their associated maximum values, both AC and DC. The insert plan form listings show the ratings for each individual insert.

1 Electrical Service Voltage	2 Military Ratings MIL-C-5015H Specifications Non-Circuit Breaking		3 NEC Ratings		4 IEC Service Ratings		5 Required Minimum Creepage Distance		6 Required Minimum Clearance or Through Air Spacing	
	DC (V)	AC (V)	Non-Circuit Breaking DC (V)	Circuit Breaking AC (V)	DC (V)	AC (V)	in	mm	in	mm
I	250	200	-	-	1000	1000	1/16	2	-	-
A	700	500	250	240	1000	1000	1/8	3	1/16	2
D	1250	900	600	600	1250	1000	3/16	5	1/8	3
E	1750	1250	600	600	1750	1250	1/4	6	3/16	5
B	2450	1750	600	600	2450	1750	5/16	8	1/4	6
C	4200	3000	600	600	4200	3000	1	25	5/16	8

*I = Instrumentation

NEC, MS Values based on RMS using MIL-C-5015H Table, XVIII working voltage, IEC values based on 60664-1 table 3b.

IEC Service Ratings circuit breaking is not permissible in IEC standards without a hot disconnet permit.

Alternative Classifications of Current Rating

Military Current Ratings According to MIL-C-39029

The maximum current carrying capability of a contact pair is determined by the basic design of the contacts and also the ability of the insulation to withstand the temperature rises caused by an increase in current. The connector is rated up to 125°C (257°F) for continuous operation. The actual working temperature is a function of the ambient temperature and the summation of the heat dissipated by each individual contact. The maximum current rating for continuous supply is calculated from temperature of the insert. See Column 2 in the above table.

NEC (National Electrical Code) Non-Circuit Breaking Table 2, on the following page, lists ratings that are based on test results of contacts and connectors. The temperature range must fall within the range specified by Underwriters Laboratories Inc., assuming certain wire sizes.

IEC Service Voltage Ratings Non-Circuit Breaking

Service voltage ratings as designated by IEC are derived from IEC 60664-1 Table 3b. When ascertaining required values for creepage and clearance voltages may be increased by a factor of 1.1 to accommodate the range in common use. Table 2, on the following page, lists these ratings.



Ampacity Ratings by Contact Size (Gauge)

AWG, MCM, and mm²

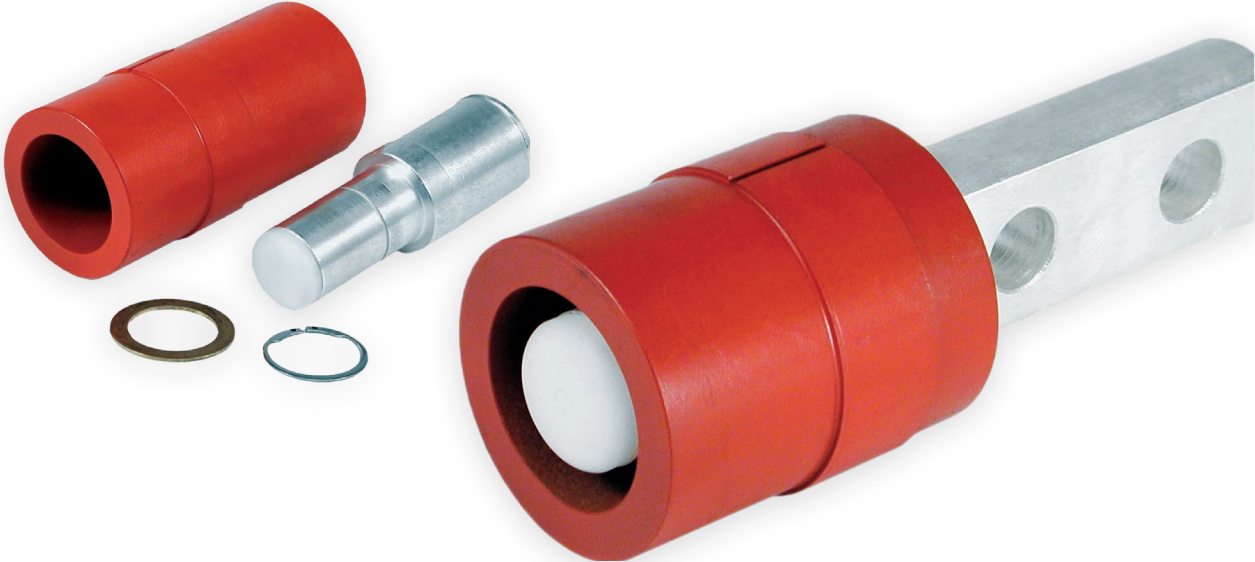


Table 2: The following pages, 4 and 5, apply to table below.

1	Contact Sizes #AWG MCM (mm²)	Ampacity Rating Non-Circuit Breaking		4	NEC Ampacity Rating Non-Circuit Breaking	5	IEC Ampacity Rating Non-Circuit Breaking	6	Contact Resistance Milliohms (mW)		
		2	MS	3	NEC				Crimp Term	Solder Term	
	18 AWG (1.0 mm²)		-		9		-		3.00	2.47	
	16 AWG (1.3 mm²)		13		16		10		16	2.25	1.75
	12 AWG (3.3 mm²)		23		30		20		30	1.29	0.86
	10 AWG (5.2 mm²)		33		40		30		40	0.96	0.64
	8 AWG (7.6 mm²)		46		50		40		50	0.75	0.42
	4 AWG (21 mm²)		80		90		60		90	0.41	0.18
	1/0 AWG (54 mm²)		150		155		100		155	0.23	0.10
	4/0 AWG (109 mm²)		225		225		200		225	0.16	0.06
	262 MCM (132 mm²)		-		599		-		599	0.086	NA
	313 MCM (159 mm²)		-		636		-		636	0.090	NA
	350 MCM (185 mm²)		-		325		-		325	0.070	NA
	373 MCM (189 mm²)		-		674		-		674	0.070	NA
	500 MCM (240 mm²)		-		750		-		750	0.069	NA
	535 MCM (273 mm²)		-		898		-		898	0.032	NA
	646 MCM (326 mm²)		-		1009		-		1009	0.026	NA
	777 MCM (394 mm²)		-		1135		-		1135	0.020	NA
	1111 MCM (562 mm²)		-		1303		-		1303	0.017	NA

Electrical Service Ratings Explained

On previous page, see 'Table 2' header for notations:
states Assumptions and Standards:

- 1** Contact sizes: assume equal wire size included as contact and wire combination. Differing wire sizes will exhibit different electrical performance results.
- 2** MS Specification (MIL-C-39029D) current ratings are in accordance with MIL-C-39029D
- 3** NEC Specifications assume a wire size selection that is in accordance NEC guidelines for temperature rise.
- 4** NEC circuit breaking capability: connectors and contacts that have demonstrated the ability to rupture current under full rated load in accordance with UL standard 1686, 1977 and MIL-C-22992E
- 4.1** NEC circuit breaking for hazardous locations (Class and Division system) Connectors and contacts have demonstrated the ability to disconnect under full rated load in accordance with UL standard 1977, 1919 and CSA C22.2-159-M1987
- 5** IEC ampacity ratings: assume equal wire size, included as contact and wire combination. Differing wire sizes will exhibit different electrical performance results.
- 6** Contact Resistance when tested in accordance with MIL-1344 method 3004.1 will not exceed the values listed in table 1 column 6
- 7** All ampacities shown are for individual contacts and must be derated to determine maximum total current to be carried by the connector. Use the tables and formulas detailed on pages: 6 and 7 Different ambient temperatures need to be taken into consideration when considering ampacity ratings, depending on application and the intended location to be used. It is particularly important to derate the connector when being used in hazardous locations.

Operating Temperature Classifications in Ambient Temperatures

Wire current ratings:

For a more conservative standard use the hazardous location derating formulas detailed on pages 6 and 7.

Hazardous locations:

The following standards IEC derating per:

IEC 60079-0 :2004 General requirements

IEC 60079-1 :2004 Flameproof protection 'd'

IEC 60079-7 :2003 Increased Safety protection 'e'

These standards require that equipment in an energized condition does not exceed the rated surface temperature in order not to ignite hazardous atmospheres. These values are listed below in 'Table 3.'

The formulas detailed on pages 6 and 7 will be of assistance to determine the correct insert and allowable ampacity for the connector application and location the value is expressed as dissipated wattage.

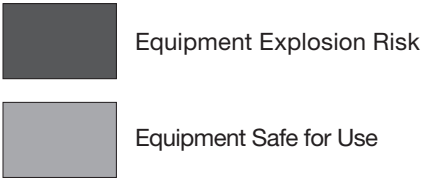
Table 2 IEC vs NEC
Temperature Classification

Temp in °C	Classification	
	IEC	N. America
85	T6	T6
100	T5	T5
120	T4	T4A
135	T4	T4
150	T3	T3C
165	T3	T3B
180	T3	T3A
100	T3	T3
115	T2	T2D
130	T2	T2C
160	T2	T2B
180	T2	T2A
300	T2	T2
450	T1	T1

NOTE: This table clarifies the differences in temperatures classification between IEC and NEC, the North American Standard

Table 3 IEC Safe Equipment Operating Temperatures

Spontaneous Ignition Temp of the Gasses (T)	Temperature Class of Equipment					
	T6 85°C	T5 100°C	T4 135°C	T3 200°C	T2 300°C	T1 450°C
85 < T < 100						
100 < T < 135						
135 < T < 200						
200 < T < 300						
300 < T < 450						
450 < T						



Connector Selection Guide

Maximum Allowable Wattages & Contact Resistance Values

Table 1 - Maximum Allowable Dissipated Wattage

Connector Shell Size	Upper Ambient Temperature of +40°C		Upper Ambient Temperature of +50°C		Upper Ambient Temperature of +65°C	
	Temperature Class		Temperature Class		Temperature Class	
	T6	T5	T6	T5	T6	T5
12	23.8	31.7	17.0	24.3	10.7	18.7
16	39.6	52.8	30.2	43.2	14.6	25.6
20	52.1	69.4	37.2	53.1	17.1	29.8
24	64.3	85.1	47.0	67.1	24.1	42.1
28	79.5	106.1	57.3	81.8	29.8	52.2
Maximum Allowable Dissipated Wattage						

NOTE: Please pay careful attention to the ambient temperature and also the temperature classification. Connectors are marked T5 unless otherwise requested.

Table 2 - Contact Resistance Values

Contact Size	Contact Resistance (milliohms mW)		Contact Current Rating (amps)
	Soldered	Crimped	
18 AWG (1.0mm ²)	2.47	3.00	9
16 AWG (1.3mm ²)	1.75	2.25	16
12 AWG (3.3mm ²)	0.86	1.29	30
10 AWG (5.2mm ²)	0.64	0.96	40
8 AWG (7.6mm ²)	0.42	0.75	50
4 AWG (21mm ²)	0.18	0.41	90
1/0 AWG (54mm ²)	0.10	0.23	155
4/0 AWG (109mm ²)	0.06	0.16	225

Contact Size	Contact Resistance (milliohms mW)		Contact Current Rating (amps)
	Soldered	Crimped	
262 MCM (132mm ²)	NA	0.086	599
313 MCM (159mm ²)	NA	0.075	636
350 MCM (185mm ²)	NA	0.070	725
444 MCM (227mm ²)	NA	0.062	796
535 MCM (273mm ²)	NA	0.032	898
646 MCM (326mm ²)	NA	0.026	1009
777 MCM (394mm ²)	NA	0.020	1135
1111 MCM (562mm ²)	NA	0.017	1303

NOTE: Contact Resistance measured in accordance with MIL-Std 1344A, Method 3004.1
Contact Resistance value expressed in milliohms mW for Table 1 and Table 2.

IMPORTANT

To select the shell size of the connector, it is essential that you calculate the dissipated wattage of the arrangement. This ensures that the arrangement does not exceed the maximum permitted temperature classification with regard to the upper ambient temperature for the area of installation. In some cases it will be necessary to either derate the allowed ampacity of each contact or increase the shell size of the connector. Refer to Table 1 about the maximum allowable dissipated wattage per connector size and use the calculations below to determine safe and proper working temperature of the chosen electrical connector.

Insert Configuration Listing & Identification

HDE, HDS and EFP Electrical Connector Service Rating

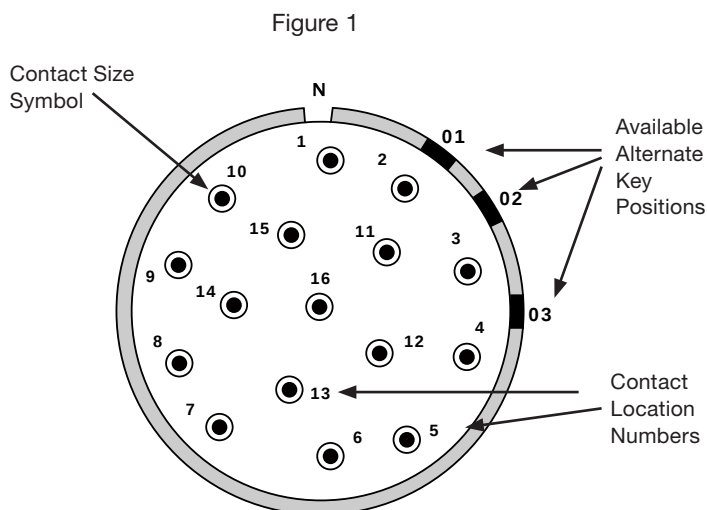
The HDE, HDS and EFP Insert Configuration listing is used primarily to identify various contact insert arrangements. For the engineer, it provides visual selection of the insert configuration needed to satisfy his other requirements. For the end user, the list provides general information useful in the termination of plugs and receptacles. To aid the reader, the insert configuration are presented in numerical order, based on the number of contacts in each insert.

Figure 1 - Illustration Configuration

The male insert illustration shown left (and those on the following pages) is shown as it appears when viewed from the front. Contacts are shown by both physical position within the configuration and by contact number. The contact number corresponds to the contact position shown on the rear face of the insert illustrated as well as to both the front and rear faces of the mating insert. The symbol used to show contact location is indicative of contact size. For example, the contact symbol in this illustration represents a #16 (1.3mm²) contact.

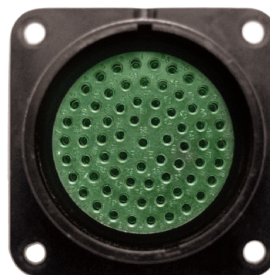
An explanation of contact symbols is presented on each page of the listing. Each drawing also provides data on normal and alternate key positions. Drawings are reduced from actual size of the insert configuration.

NOTE: Alternate keying or insert polarization is intended to prevent improper intermating of plugs and receptacles of like shell sizes and like insert arrangements.

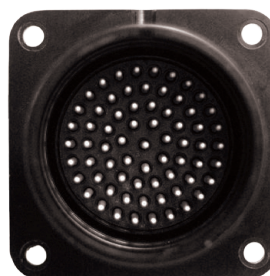


HDS and EFP Electrical Circuit Breaking CB Series. Reversed Service Applications

All contact inserts can be reversed in the field or connectors can be ordered for reverse assembly. Typically, the panel mount receptacle houses a female insert, while the cable mounted plug accommodates the male insert. In reverse service the opposite is the case.



Standard Shell Female

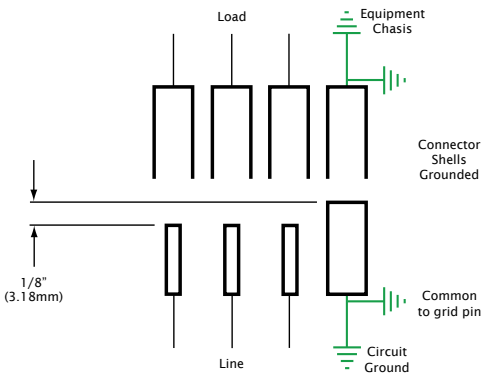


Standard Shell Male

Connector Grounding Systems & Horsepower Ratings



Equipment Chassis Grounding Layout



Connector Shell Grounding

Equipment ground conductors, when used, are always connected through a longer contact which is equipped with a spring clip for mechanically connecting the connector shell to the ground conductor. The ground Pin (male) has 1/8" (3.18mm) additional length to mate first and break last. The hard anodic coating is omitted inside shell at points of contact for the ground clip to positively bond to the connector shell. The position number of the long contact with ground clip is given on the following contact insert listing pages. No other positions are available.

Horsepower Ratings: Energized Circuits

HDS Series CB Circuit breaking connectors are capable of breaking circuits under load at their service voltage and circuit breaking ampacity rating in accordance with the new Standard UL 1686 and 1977, current rupturing requirements. They can also be used in emergencies to disconnect abnormal motor loads without danger of injurious or damaging flashover even under locked-rotor conditions. Maximum horsepower ratings at which they can safely open the circuit in emergencies are shown in the table at the right. In accordance with IEC regulations circuits may not be ruptured under load.

Non-Interrupting Ampere Rating

When used in series with a disconnect switch, for de-energizing the circuit before inserting or withdrawing the plug, HDS Series CB Connectors can be used for loads up to the maximum ampere rating of the contacts. Non-interrupting ratings are shown in the table below as well as in the contact insert listings on the following pages. If emergency circuit breaking, at these higher ratings, is apt to be encountered, an automatic disconnect switch should be used in series with the connector. Information on the combination power and automatic control contact inserts for HDS Series CB Connectors can be supplied upon request.

Rating of Motors: Maximum Horsepower

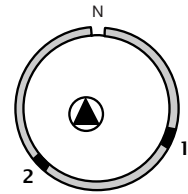
Wires, Poles & Phases	Connector Rating C Breaking Amperes	Classification			
		120V	240V	480V	600V
3-Wire, 4-Pole Three Phase	30	3	10	20	15
	60	10	20	30	25
	100	15	30	40	30
	200	30	50	50	30
3-Wire, 4-Pole Two Phase Three Wire	30	3	7.5	15	15
	60	7.5	15	30	25
	100	10	25	40	30
	200	25	50	50	30
4-Wire, 4-Pole Two Phase Four Wire	30	5	10	25	20
	60	10	25	40	40
	100	15	30	50	40
	200	40	50	50	40

One Contact

Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	C24	Pin	HDS-C24-14/0M
			Socket	HDS-C24-14/0F

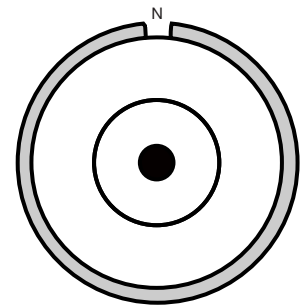
Keyway Positions
01 - 100°
02 - 231°

Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
1	4/0 (109)	D



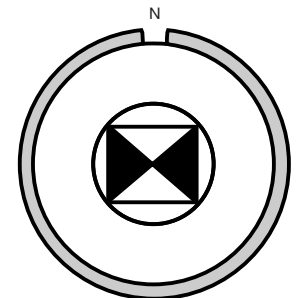
Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	C24	Pin	HDS-C24-1262M
			Socket	HDS-C24-1262F

Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
1	262MCM (132)	D



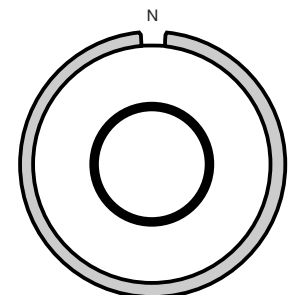
Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	C24	Pin	HDS-C24-1262M
			Socket	HDS-C24-1262F

Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
1	313MCM (159)	D



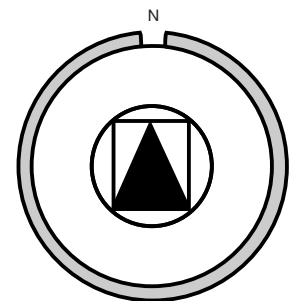
Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	C24	Pin	HDS-C24-1373M
			Socket	HDS-C24-1373F

Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
1	373MCM (189)	D



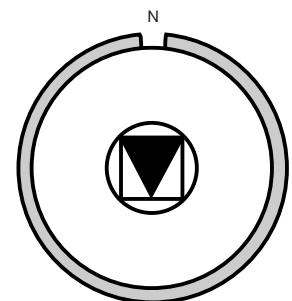
Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	C24	Pin	HDS-C24-1444M
			Socket	HDS-C24-1444F

Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
1	444MCM (227)	D



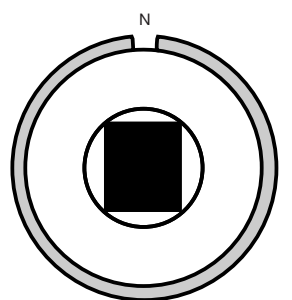
Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	C24	Pin	HDS-C24-1500M
			Socket	HDS-C24-1500F

Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
1	500MCM (240)	D



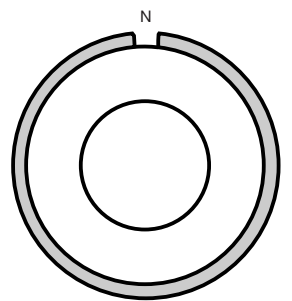
Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	C24	Pin	HDS-C24-1535M
			Socket	HDS-C24-1535F

Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
1	535MCM (273)	D



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	C24	Pin	HDS-C24-1646M
			Socket	HDS-C24-1646F

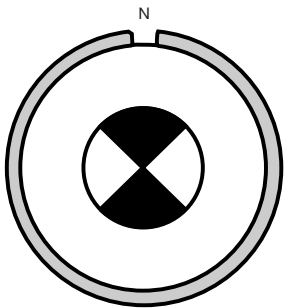
Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
1	646MCM (326)	D



One Contact

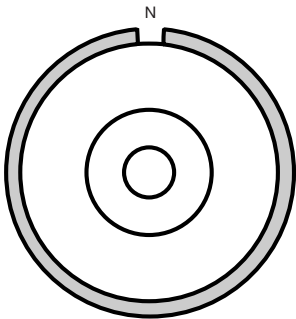
Three Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	C24	Pin	HDS-C24-1777M
			Socket	HDS-C24-1777F
Quantity		Size AWG/MCM (mm²)		Service Voltage Rating
1		777MCM (394)		D



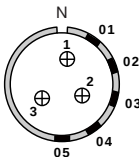
Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	C24	Pin	HDS-C24-11111M
			Socket	HDS-C24-11111F

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
1	777MCM (394)	D



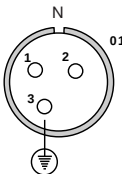
Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	12	Pin	HDS-12-312M
			Socket	HDS-12-312F
Quantity		Size AWG/MCM (mm²)		Service Voltage Rating
3		12 (3.3)		D

Keyway Positions
01 - 36°
02 - 72°
03 - 108°
04 - 144°
05 - 180°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	12	Pin	HDS-12-310GM
			Socket	HDS-12-310GF
Quantity		Size AWG/MCM (mm²)		Service Voltage Rating
3		10 (5.2)		D

Keyway Positions
01 - 50°

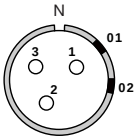


Three Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	12	Pin	HDS-12-310M
			Socket	HDS-12-310F

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
3	10 (5.2)	D

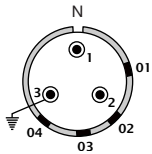
Keyway Positions
01 - 36°
02 - 100°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	12	Pin	HDS-12-38GM
			Socket	HDS-12-38GF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
3	8 (7.6)	A

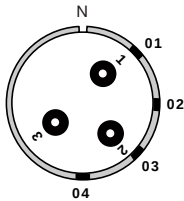
Keyway Positions
01 - 80°
02 - 140°
03 - 180°
04 - 220°



Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	16	Pin	HDS-16-34GM1
			Socket	HDS-16-34GF1
1	Pressure	16	Pin	HDS-16-34GMR1
			Socket	HDS-16-34GFR1

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
3	4 (21)	D

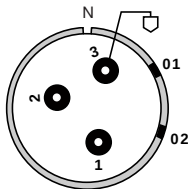
Keyway Positions
01 - 40°
02 - 90°
03 - 140°
04 - 180°



Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	16	Pin	HDS-16-34M1
			Socket	HDS-16-34F1
1	Pressure	16	Pin	HDS-16-34MR1
			Socket	HDS-16-34FR1

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
3	4 (21)	D

Keyway Positions
01 - 70°
02 - 110°

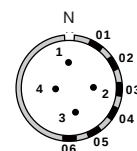


Four Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	12	Pin	HDS-12-416M
			Socket	HDS-12-416F

Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
4	16 (1.3)	D

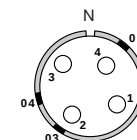
Keyway Positions
01 - 30°
02 - 60°
03 - 90°
04 - 120°
05 - 150°
06 - 180°



Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	12	Pin	HDS-12-410M1
			Socket	HDS-12-410F1
2	Crimp	12	Pin	HDS-12-410M
			Socket	HDS-12-410F

Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
4	10 (5.2)	D

Keyway Positions
01 - 27°
03 - 207°
04 - 243°

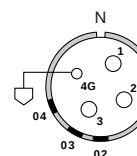


Note: 01 key position not available in pressure termination

Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	12	Pin	HDS-12-410GM1
			Socket	HDS-12-410GF1
2	Crimp	12	Pin	HDS-12-410GM
			Socket	HDS-12-410GF

Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
4	10 (5.2)	D

Keyway Positions
02 - 180°
03 - 207°
04 - 243°

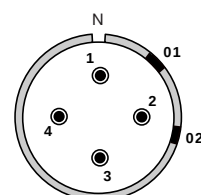


Note: 01 key position not available in pressure termination

Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	16	Pin	HDS-16-48M1
			Socket	HDS-16-48F1

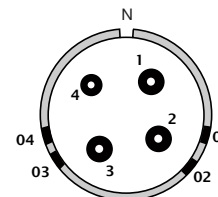
Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
4	8 (7.6)	D

Keyway Positions
01 - 45°
02 - 112°

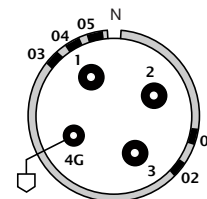


Four Contacts

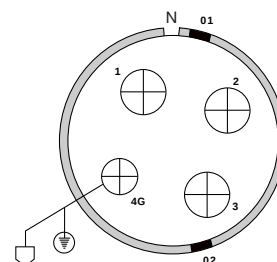
Style	Term Type	Shell Size	Insert Gender	Part Number	Keyway Positions	
					01 - 105°	02 - 135°
1	Solder	16	Pin	HDS-16-44M1	03 - 240°	04 - 255°
			Socket	HDS-16-44F1		
1	Pressure	16	Pin	HDS-16-44MR1		
			Socket	HDS-16-44FR1		
2	Crimp	16	Pin	HDS-16-44M		
			Socket	HDS-16-44F		
Quantity		Size AWG/MCM (mm²)		Service Voltage Rating		
4		4 (21)		D		



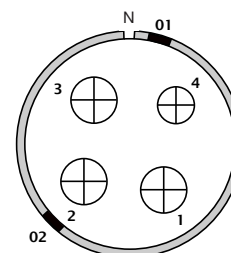
Style	Term Type	Shell Size	Insert Gender	Part Number	Keyway Positions
1	Solder	16	Pin	HDS-16-44GM1	01 - 105°
			Socket	HDS-16-44GF1	02 - 120°
1	Pressure	16	Pin	HDS-16-44GMR1	03 - 315°
			Socket	HDS-16-44GFR1	04 - 330°
2	Crimp	16	Pin	HDS-16-44GM	05 - 345°
			Socket	HDS-16-44GF	
Quantity		Size AWG/MCM (mm²)		Service Voltage Rating	
4		4 (21)		D	



Style	Term Type	Shell Size	Insert Gender	Part Number	Keyway Positions
1	Solder	C20	Pin	HDS-C20-41/0GM1	01 - 15°
			Socket	HDS-C20-41/0GF1	02 - 165°
1	Pressure	C20	Pin	HDS-C20-41/0GMR1	
			Socket	HDS-C20-41/0GFR1	
2	Crimp	C20	Pin	HDS-C20-41/0GM	
			Socket	HDS-C20-41/0GF	
Quantity		Size AWG/MCM (mm²)		Service Voltage Rating	
4		1/0 (54)		D	



Style	Term Type	Shell Size	Insert Gender	Part Number	Keyway Positions	
					01 - 15°	
1	Solder	C20	Pin	HDS-C20-41/0M1	02 - 225°	
			Socket	HDS-C20-41/0F1		
1	Pressure	C20	Pin	HDS-C20-41/0MR1	Note: 01 key position not available in pressure termination	
			Socket	HDS-C20-41/0FR1		
2	Crimp	C20	Pin	HDS-C20-41/0M		
			Socket	HDS-C20-41/0F		
Quantity		Size AWG/MCM (mm²)		Service Voltage Rating		
4		1/0 (54)		D		



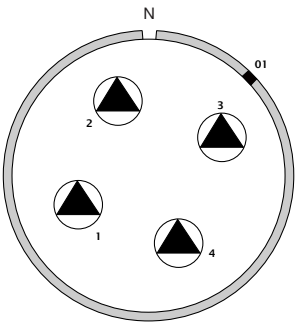
Note: 01 key position not available in pressure termination

Four Contacts

Five Contacts

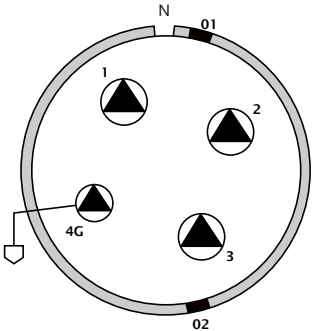
Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	24	Pin	HDS-24-44/0M1
			Socket	HDS-24-44/0F1
Quantity	Size AWG/MCM (mm²)	Service Voltage Rating		
4	4/0 (109)	D		

Keyway Positions
01 - 45°



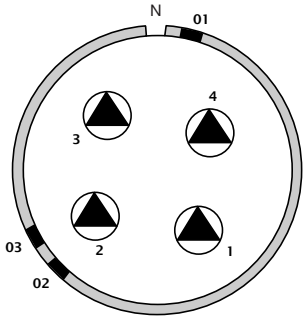
Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	C24	Pin	HDS-C24-44/0GM1
			Socket	HDS-C24-44/0GF1
1	Pressure	C24	Pin	HDS-C24-44/0GMR1
			Socket	HDS-C24-44/0GFR1
Quantity	Size AWG/MCM (mm²)	Service Voltage Rating		
4	4/0 (109)	D		

Keyway Positions
01 - 15°
02 - 165°

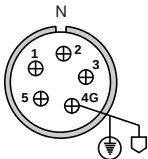


Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	C24	Pin	HDS-C24-44/0CM1
			Socket	HDS-C24-44/0CF1
Quantity	Size AWG/MCM (mm²)	Service Voltage Rating		
4	4/0 (109)	D		

Keyway Positions
01 - 15°
02 - 225°
03 - 240°



Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	12	Pin	HDS-12-512M1
			Socket	HDS-12-512F1
2	Crimp	12	Pin	HDS-12-512M
			Socket	HDS-12-512F
Quantity	Size AWG/MCM (mm²)	Service Voltage Rating		
5	12 (3.3)	D		

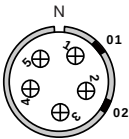


Five Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	12	Pin	HDS-12-512M1
			Socket	HDS-12-512F1
2	Crimp	12	Pin	HDS-12-512M
			Socket	HDS-12-512MF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
5	12 (3.3)	D

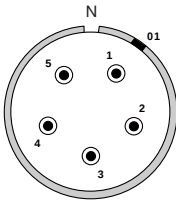
Keyway Positions
01 - 48°
02 - 97.3°



Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	16	Pin	HDS-16-58M1
			Socket	HDS-16-58F1
2	Crimp	16	Pin	HDS-16-58M
			Socket	HDS-16-58F

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
5	8 (7.6)	D

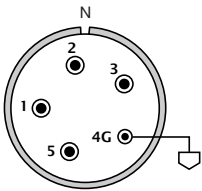
Keyway Positions
01 - 36°



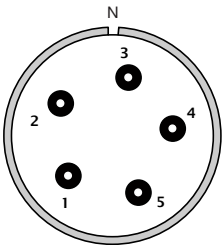
Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	16	Pin	HDS-16-58GM1
			Socket	HDS-16-58GF1
2	Crimp	16	Pin	HDS-16-58GM
			Socket	HDS-16-58GF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
5	8 (7.6)	D

Note: Contact cannot be used with short cable adapter 16



Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	20	Pin	HDS-20-54GM1
			Socket	HDS-20-54GF1
1	Pressure	20	Pin	HDS-20-54GMR1
			Socket	HDS-20-54GFR1
2	Crimp	20	Pin	HDS-20-54GM
			Socket	HDS-20-54GF
Quantity		Size AWG/MCM (mm ²)		Service Voltage Rating
5		4 (21)		D

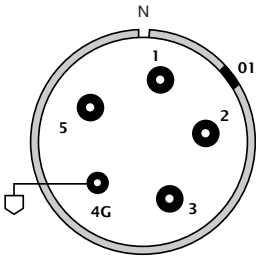


Five Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	20	Pin	HDS-20-54GM1
			Socket	HDS-20-54GF1
1	Pressure	20	Pin	HDS-20-54GMR
			Socket	HDS-20-54GFR

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
5	4 (21)	D

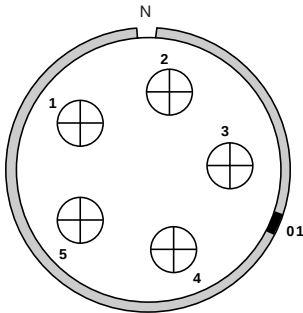
Keyway Positions
01 - 51°



Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	C24	Pin	HDS-C24-51/0M1
			Socket	HDS-C24-51/0F1
1	Pressure	C24	Pin	HDS-C24-51/0MR1
			Socket	HDS-C24-51/0FR1

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
5	1/0 (54)	E

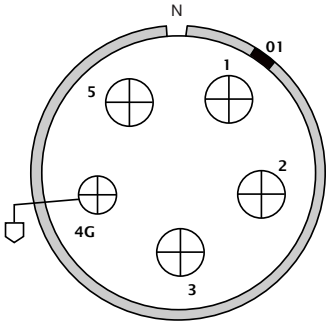
Keyway Positions
01 - 108°



Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	C24	Pin	HDS-C24-51/0GM1
			Socket	HDS-C24-51/0GF1
1	Pressure	C24	Pin	HDS-C24-51/0GMR1
			Socket	HDS-C24-51/0GFR1

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
5	1/0 (54)	E

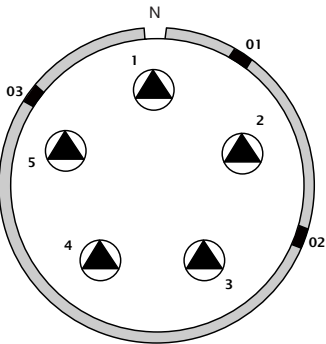
Keyway Positions
01 - 36°



Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	C28	Pin	HDS-C28-54/0M1
			Socket	HDS-C28-54/0F1
1	Pressure	C28	Pin	HDS-C28-54/0MR1
			Socket	HDS-C28-54/0FR1

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
5	1/0 (109)	D

Keyway Positions
01 - 36°
02 - 128°
03 - 306°

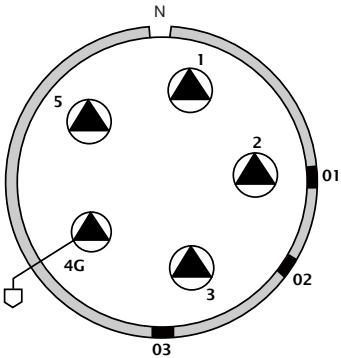


Five Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	C28	Pin	HDS-C28-54/0CGM1
			Socket	HDS-C28-54/0CGF1
1	Pressure	C28	Pin	HDS-C28-54/0CGMR1
			Socket	HDS-C28-54/0CGFR1

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
5	4/0 (109)	D

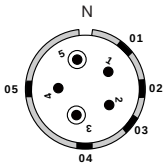
Keyway Positions
01 - 90°
02 - 126°
03 - 180°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	12	Pin	HDS-12-316CM
			Socket	HDS-12-316CF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
2	8 (7.6)	A
3	16 (1.3)	A

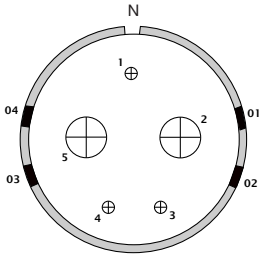
Keyway Positions
01 - 45°
02 - 90°
03 - 115°
04 - 180°
05 - 270°



Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	20	Pin	HDS-20-312CM1
			Socket	HDS-20-312CF1
2	Crimp	20	Pin	HDS-20-312CM
			Socket	HDS-20-312CF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
2	1/0 (54)	E
3	12 (3.3)	E

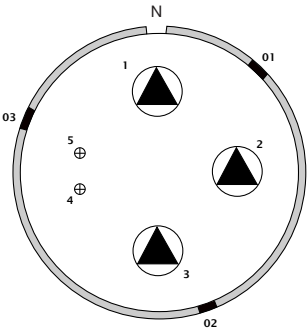
Keyway Positions
01 - 80°
02 - 110°
03 - 250°
04 - 280°



Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	C24	Pin	HDS-C24-34/0CM1
			Socket	HDS-C24-34/0CF1

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
3	4/0 (109)	D
2	12 (3.3)	A

Keyway Positions
01 - 45°
02 - 157°
03 - 292°

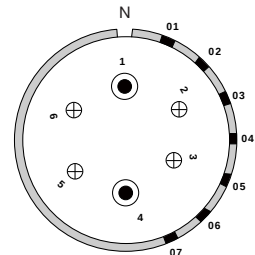


Six Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	20	Pin	HDS-20-412CM
			Socket	HDS-20-412CF

Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
2	8 (7.6)	E
4	12 (3.3)	E

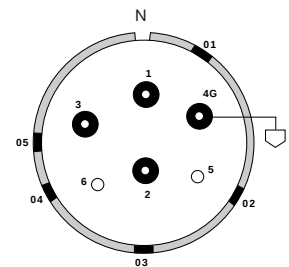
Keyway Positions
01 - 23°
02 - 45°
03 - 68°
04 - 90°
05 - 112°
06 - 135°
07 - 157°



Style	Term Type	Shell Size	Insert Gender	Part Number
1	Pressure	20	Pin	HDS-20-44CGMR1
			Socket	HDS-20-44CGFR1

Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
4	4 (21)	D
2	10 (5.2)	D

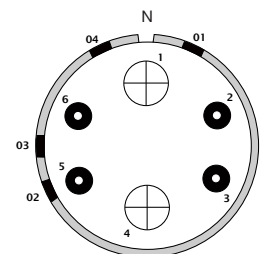
Keyway Positions
01 - 30°
02 - 120°
03 - 180°
04 - 240°
05 - 270°



Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	20	Pin	HDS-20-21/0CM1
			Socket	HDS-20-21/0CF1
2	Crimp	20	Pin	HDS-20-21/0CM
			Socket	HDS-20-21/0CF

Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
2	1/0 (54)	A
4	4 (21)	A

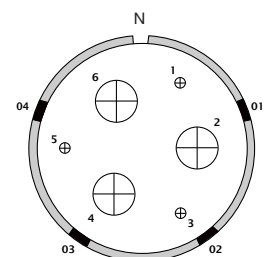
Keyway Positions
01 - 26°
02 - 244°
03 - 270°
04 - 334°



Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	20	Pin	HDS-20-31/0CM1
			Socket	HDS-20-31/0CF1
2	Crimp	20	Pin	HDS-20-31/0CM
			Socket	HDS-20-31/0CF

Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
3	1/0 (54)	D
3	12 (3.3)	D

Keyway Positions
01 - 70°
02 - 145°
03 - 215°
04 - 290°

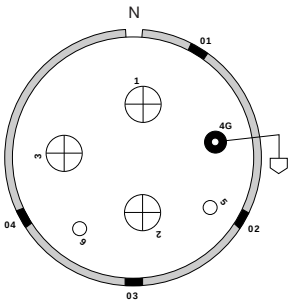


Six Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
1	Pressure	C24	Pin	HDS-C24-31/0CGMR1
			Socket	HDS-C24-31/0CGFR1

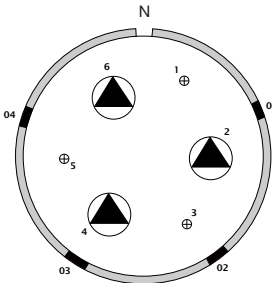
Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
3	1/0 (54)	D
2	10 Relay (5.2)	D
1	4 (21)	D

Keyway Positions
01 - 30°
02 - 120°
03 - 180°
04 - 240°



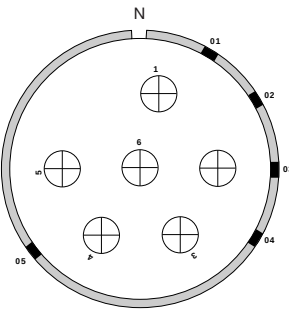
Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	C24	Pin	HDS-C24-34/0CM1
			Socket	HDS-C24-34/0CF1
Quantity		Size AWG/MCM (mm²)	Service Voltage Rating	
3		4/0 (109)	D	
3		12 (3.3)	D	

Keyway Positions
01 - 70°
02 - 145°
03 - 215°
04 - 290°



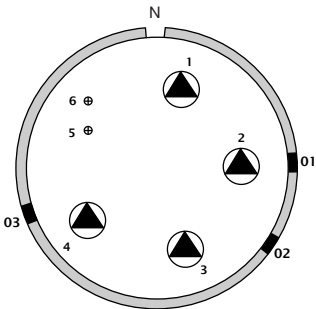
Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	C28	Pin	HDS-C28-61/0M
			Socket	HDS-C28-61/0F
Quantity		Size AWG/MCM (mm²)		Service Voltage Rating
6		1/0 (54)		D

Keyway Positions
01 - 30°
02 - 60°
03 - 90°
04 - 120°
05 - 230°



Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	C28	Pin	HDS-C28-44/0CM1
			Socket	HDS-C28-44/0CF1
Quantity		Size AWG/MCM (mm²)		Service Voltage Rating
4		4/0 (109)		D
2		12 Relay (3.3)		A

Keyway Positions
01 - 90°
02 - 126°
03 - 252°



Six Contacts

Seven Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	C28	Pin	HDS-C28-44/0CGM1
			Socket	HDS-C28-44/0CGF1

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
4	4/0 (109)	D
2	12 Relay (3.3)	A

Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	C28	Pin	HDS-C28-4350CM1
			Socket	HDS-C28-4350CF1

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
4	350MCM (185)	D
2	12 Relay (3.3)	E

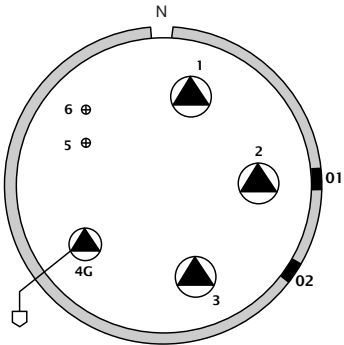
Style	Term Type	Shell Size	Insert Gender	Part Number
1	Pressure	C28	Pin	HDS-C28-44/0CGMR1
			Socket	HDS-C28-44/0CGFR1
1	Solder	C28	Pin	HDS-C28-44/0CGM1
			Socket	HDS-C28-44/0CGF1

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
4	4/0 (109)	D
2	10 Relay (5.2)	

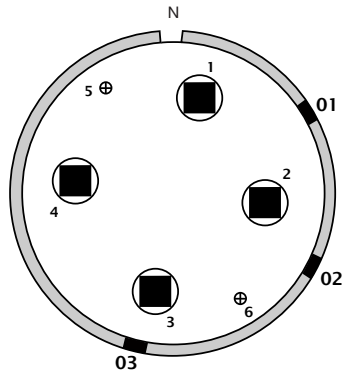
Style	Term Type	Shell Size	Insert Gender	Part Number
1	Crimp	12	Pin	HDS-12-716M
			Socket	HDS-12-716F

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
7	350MCM (185)	D

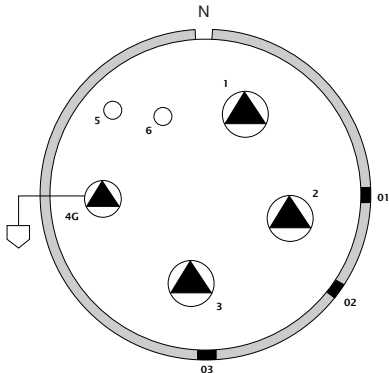
Keyway Positions
01 - 90°
02 - 126°



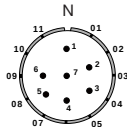
Keyway Positions
01 - 60°
02 - 120°
03 - 195°



Keyway Positions
01 - 90°
02 - 126°
03 - 180°

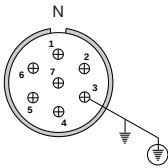


Keyway Positions	
01 - 30°	07 - 210°
02 - 60°	08 - 240°
03 - 90°	09 - 270°
04 - 120°	10 - 300°
05 - 150°	11 - 330°
06 - 180°	

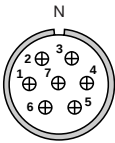


Seven Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	12	Pin	HDS-12-712GM
			Socket	HDS-12-712GF
Quantity		Size AWG/MCM (mm²)		Service Voltage Rating
7		12 (3.3)		A

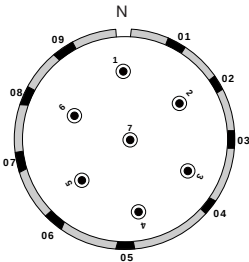


Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	12	Pin	HDS-12-712M
			Socket	HDS-12-712F
Quantity		Size AWG/MCM (mm²)		Service Voltage Rating
7		12 (3.3)		A



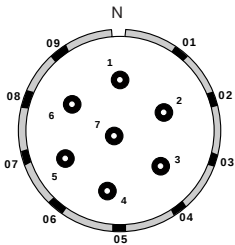
Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	20	Pin	HDS-20-78M
			Socket	HDS-20-78F
Quantity		Size AWG/MCM (mm²)		Service Voltage Rating
7		8 (7.6)		E

Keyway Positions	
01 - 36°	06 - 216°
02 - 72°	07 - 252°
03 - 108°	08 - 288°
04 - 144°	09 - 324°
05 - 180°	



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	24	Pin	HDS-24-74M
			Socket	HDS-24-74F
Quantity		Size AWG/MCM (mm²)		Service Voltage Rating
7		8 (7.6)		E

Keyway Positions	
01 - 36°	06 - 216°
02 - 72°	07 - 252°
03 - 108°	08 - 288°
04 - 144°	09 - 324°
05 - 180°	



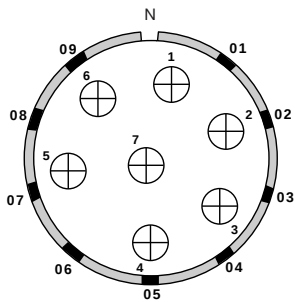
Seven Contacts

Eight Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	C24	Pin	HDS-C24-71/0M1
			Socket	HDS-C24-71/0F1
2	Crimp	C24	Pin	HDS-C24-71/0M
			Socket	HDS-C24-71/0M

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
7	1/0 (54)	D

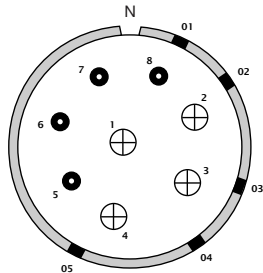
Keyway Positions	
01 - 36°	06 - 216°
02 - 72°	07 - 252°
03 - 108°	08 - 288°
04 - 144°	09 - 324°
05 - 180°	



Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	24	Pin	HDS-24-41/0CM1
			Socket	HDS-24-41/0CF1
2	Crimp	24	Pin	HDS-24-41/0CM
			Socket	HDS-24-41/0CF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
4	1/0 (54)	D
4	4 (21)	D

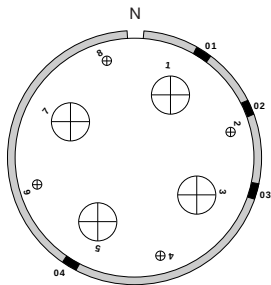
Keyway Positions	
01 - 22°	
02 - 57°	
03 - 105°	
04 - 147°	
05 - 200°	



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	C24	Pin	HDS-C24-41/0CM
			Socket	HDS-C24-41/0CF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
4	1/0 (54)	B
4	12 (3.3)	A

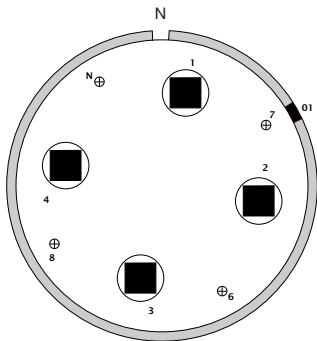
Keyway Positions	
01 - 30°	
02 - 71°	
03 - 108°	
04 - 222°	



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Solder	C28	Pin	HDS-C28-4350CM1
			Socket	HDS-C28-4350CF1

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
4	350MCM (185)	D
4	12 (3.3)	E

Keyway Positions	
01 - 60°	



Eight Contacts

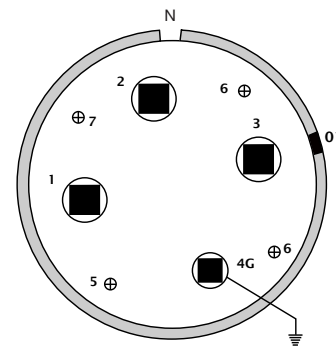
Nine Contacts

Ten Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	C28	Pin	HDS-C28-4350CGM1
			Socket	HDS-C28-4350CGF1

Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
4	350MCM (185)	D
4	12 (3.3)	E

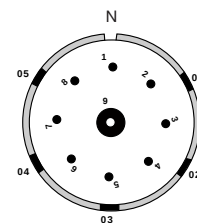
Keyway Positions
01 - 75°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	16	Pin	HDS-16-816CM
			Socket	HDS-16-816CF

Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
1	4 (21)	D
8	16 (1.3)	D

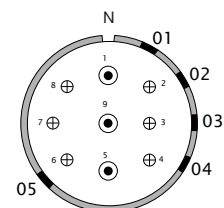
Keyway Positions
01 - 60°
02 - 120°
03 - 180°
04 - 240°
05 - 300°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	16	Pin	HDS-16-612CM
			Socket	HDS-16-612CF

Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
6	12 (3.3)	A
3	8 (7.6)	A

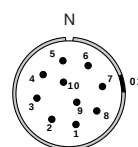
Keyway Positions
01 - 30°
02 - 60°
03 - 90°
04 - 120°
05 - 230°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	12	Pin	HDS-12-1016M
			Socket	HDS-12-1016F

Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
10	16 (1.3)	A

Keyway Positions
01 - 75°

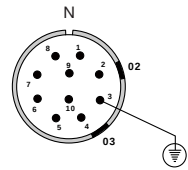


Ten Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	12	Pin	HDS-12-1016GM
			Socket	HDS-12-1016GF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
10	16 (1.3)	A

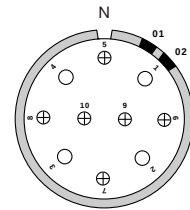
Keyway Positions
02 - 70°
03 - 145°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	16	Pin	HDS-16-612CM
			Socket	HDS-16-612CF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
4	10 (5.2)	D
6	12 (3.3)	D

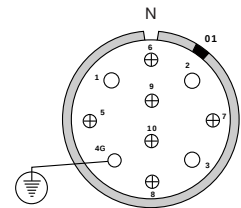
Keyway Positions
01 - 30°
02 - 45°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	16	Pin	HDS-16-612CGM
			Socket	HDS-16-612CGF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
4	10 (5.2)	D
6	12 (3.3)	D

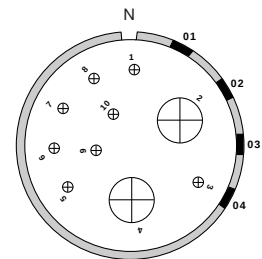
Keyway Positions
01 - 35°



Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	20	Pin	HDS-20-812CM1
			Socket	HDS-20-812CF1

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
2	1/0 (54)	D
8	12 (3.3)	D

Keyway Positions
01 - 30°
02 - 60°
03 - 90°
04 - 120°

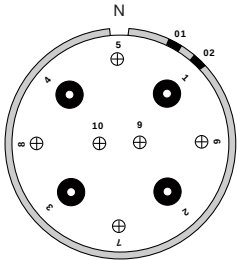


Ten Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	20	Pin	HDS-20-612CM
			Socket	HDS-20-612CF

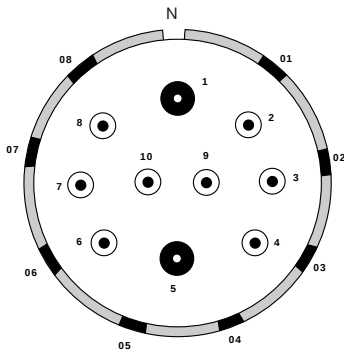
Keyway Positions
01 - 30°
02 - 45°

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
4	4 (21)	D
6	12 (3.3)	D



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	24	Pin	HDS-24-88CM
			Socket	HDS-24-88CF

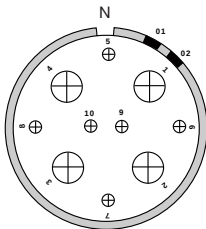
Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
2	4 (21)	D
8	8 (7.6)	



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	C24	Pin	HDS-C24-612CM
			Socket	HDS-C24-612CF

Keyway Positions
01 - 30°
02 - 45°

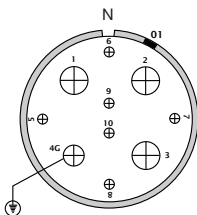
Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
4	1/0 (54)	D
6	12 (3.3)	D



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	C24	Pin	HDS-C24-612CGM
			Socket	HDS-C24-612CGF

Keyway Positions
01 - 35°

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
4	1/0 (54)	D
6	12 (3.3)	D



Twelve Contacts

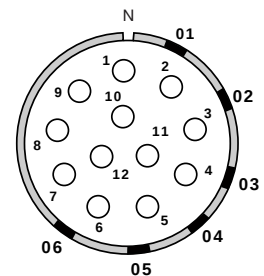
Fourteen Contacts

Fifteen Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	20	Pin	HDS-20-1210M
			Socket	HDS-20-1210F

Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
12	10 (5.2)	D

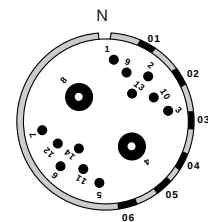
Keyway Positions
01 - 27°
02 - 67°
03 - 107°
04 - 133°
05 - 173°
06 - 214°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	16	Pin	HDS-16-1216M
			Socket	HDS-16-1216F

Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
2	4 (21)	D
12	16 (1.3)	A

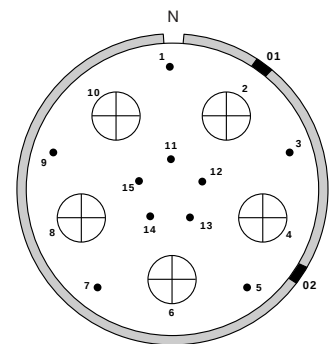
Keyway Positions
01 - 30°
02 - 60°
03 - 90°
04 - 112°
05 - 135°
06 - 157°



Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	24	Pin	HDS-24-1016CM1
			Socket	HDS-24-1016CF1

Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
5	1/0 (54)	D
10	16 (1.3)	D

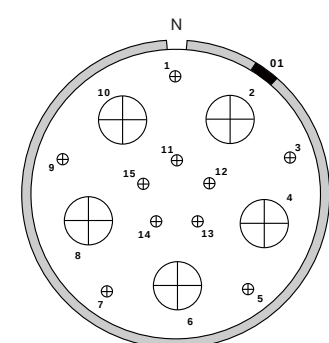
Keyway Positions
01 - 36°
02 - 126°



Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	24	Pin	HDS-24-1012CM1
			Socket	HDS-24-1012CF1

Quantity	Size AWG/MCM (mm ²)	Service Voltage Rating
5	1/0 (54)	D
10	12 (13.3)	A

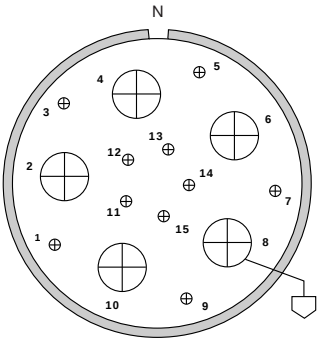
Keyway Positions
01 - 36°



Fifteen Contacts
Sixteen Contacts
Seventeen Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	C24	Pin	HDS-C24-1210CGM1
			Socket	HDS-C24-1210CGF1

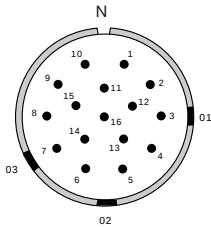
Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
5	1/0 (54)	D
10	12 (3.3)	A



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	16	Pin	HDS-16-1616M
			Socket	HDS-16-1616F

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
16	16 (1.3)	D

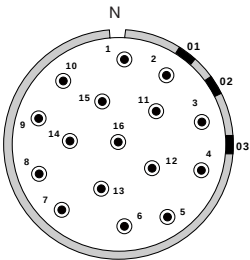
Keyway Positions
01 - 90°
02 - 180°
03 - 243°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	20	Pin	HDS-20-168M
			Socket	HDS-20-168F

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
16	8 (7.6)	A

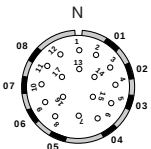
Keyway Positions
01 - 36°
02 - 57°
03 - 90°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	12	Pin	HDS-12-1718M
			Socket	HDS-12-1818F

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
17	18 (1.0)	A

Keyway Positions	
01 - 36°	05 - 198°
02 - 72°	06 - 234°
03 - 108°	07 - 270°
04 - 144°	08 - 306°



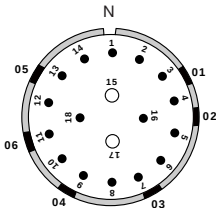
Eighteen Contacts

Nineteen Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	16	Pin	HDS-16-1616CM
			Socket	HDS-16-1616CF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
2	10 (5.2)	D
16	16 (1.3)	D

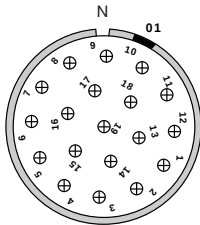
Keyway Positions
01 - 60°
02 - 90°
03 - 150°
04 - 211°
05 - 255°
06 - 300°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	16	Pin	HDS-16-1912M
			Socket	HDS-16-1912F

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
19	12 (3.3)	A

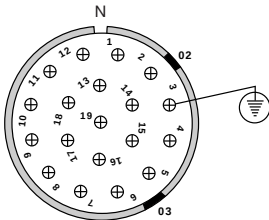
Keyway Positions
01 - 24°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	16	Pin	HDS-16-1912GM
			Socket	HDS-16-1912GF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
19	12 (3.3)	A

Keyway Positions
02 - 48°
03 - 144°

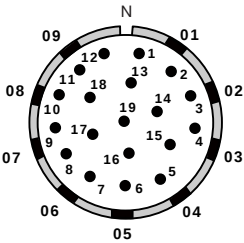


Nineteen Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	16	Pin	HDS-16-1916M
			Socket	HDS-16-1916F

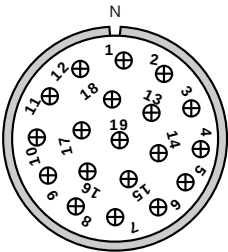
Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
19	16 (1.3)	A

Keyway Positions	
01 - 36°	06 - 216°
02 - 72°	07 - 252°
03 - 108°	08 - 288°
04 - 144°	09 - 324°
05 - 180°	



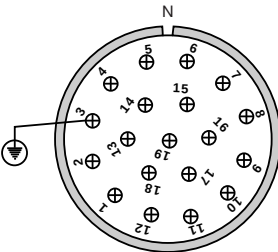
Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	20	Pin	HDS-20-1912M
			Socket	HDS-20-1912F

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
19	12 (3.3)	D



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	20	Pin	HDS-20-1912GM
			Socket	HDS-20-1912GF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
19	12 (3.3)	D



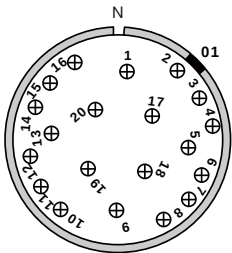
Twenty Contacts

Twenty-One Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	20	Pin	HDS-20-2012M
			Socket	HDS-20-2012F

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
20	12 (3.3)	B Center / A Outer

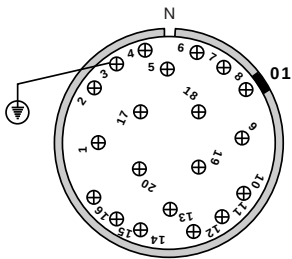
Keyway Positions
01 - 43°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	20	Pin	HDS-20-2012GM
			Socket	HDS-20-2012GF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
20	12 (3.3)	B Center / A Outer

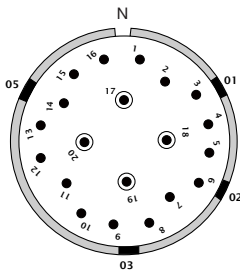
Keyway Positions
01 - 56°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	20	Pin	HDS-20-1616CM
			Socket	HDS-20-1616CF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
4	8 (7.6)	D
16	16 (1.3)	D

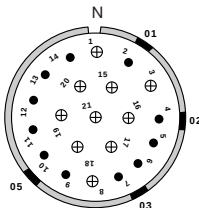
Keyway Positions
01 - 60°
02 - 120°
03 - 180°
05 - 300°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	16	Pin	HDS-16-1116CM
			Socket	HDS-16-1116CF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
10	12 (3.3)	A
11	16 (1.3)	A

Keyway Positions
01 - 30°
02 - 90°
03 - 150°
04 - 222°

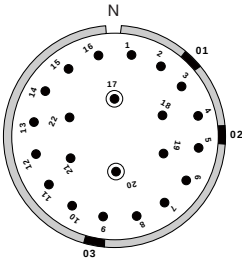


Twenty-Two Contacts
Twenty-Six Contacts
Twenty-Seven Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	20	Pin	HDS-20-2016CM
			Socket	HDS-20-2016CF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
2	8 (7.6)	E
20	16 (1.3)	D

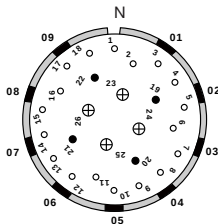
Keyway Positions
01 - 45°
02 - 90°
03 - 191°



Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	16	Pin	HDS-16-818CM1
			Socket	HDS-16-818CF1

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
4	12 (3.3)	A
4	16 (1.3)	A
18	18 (1.0)	A

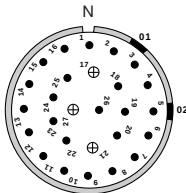
Keyway Positions	
01 - 36°	06 - 216°
02 - 72°	07 - 252°
03 - 108°	08 - 288°
04 - 144°	09 - 324°
05 - 180°	



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	16	Pin	HDS-16-2416CM
			Socket	HDS-16-2416CF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
3	12 (3.3)	A
24	16 (1.3)	A

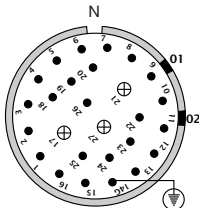
Keyway Positions
01 - 33°
02 - 90°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	16	Pin	HDS-16-2416CGM
			Socket	HDS-16-2416CGF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
24	16 (1.3)	A
3	12 (3.3)	A

Keyway Positions
01 - 54°
02 - 90°

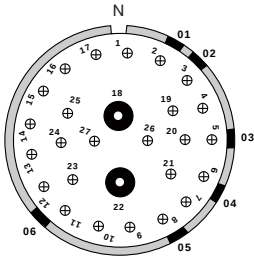


Twenty-Seven Contacts
Twenty-Nine Contacts
Thirty-Seven Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	20	Pin	HDS-20-2512CM
			Socket	HDS-20-2512CF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
2	4 (21)	D
25	12 (1.3)	A

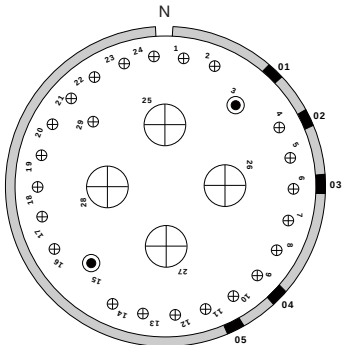
Keyway Positions
01 - 30°
02 - 45°
03 - 90°
04 - 120°
05 - 150°
06 - 225°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	C28	Pin	HDS-C28-2312CM
			Socket	HDS-C28-2312CF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
4	1/0 (54)	D
2	8 (7.6)	D
23	12 (3.3)	A

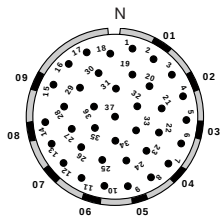
Keyway Positions
01 - 45°
02 - 66°
03 - 90°
04 - 135°
05 - 155°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	16	Pin	HDS-16-3716M
			Socket	HDS-16-3716F
3	Crimp	16	Pin	HDS-16-3716MC
			Socket	HDS-16-3716FC
1	Solder	16	Pin	HDS-16-3716M1
			Socket	HDS-16-3716F1

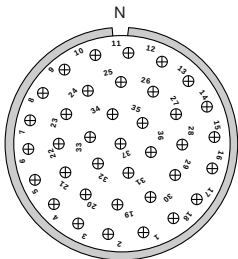
Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
37	16 (1.3)	A

Keyway Positions	
01 - 32°	06 - 195°
02 - 65°	07 - 227°
03 - 97°	08 - 260°
04 - 130°	09 - 292°
05 - 162°	



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	20	Pin	HDS-20-3712M
			Socket	HDS-20-3712F

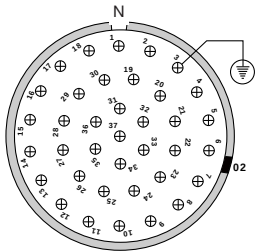
Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
37	12 (3.3)	A



Thirty-Seven Contacts
Thirty-Eight Contacts

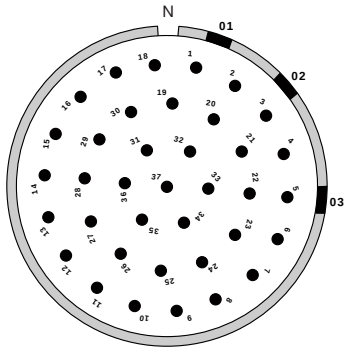
Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	20	Pin	HDS-20-3712GM
			Socket	HDS-20-3712GF
Quantity		Size AWG/MCM (mm²)		Service Voltage Rating
37		12 (3.3)		A

Keyway Positions
02 - 100°



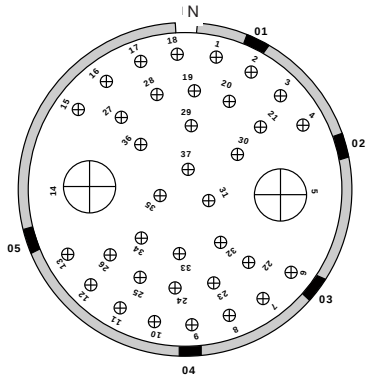
Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	24	Pin	HDS-24-3716M
			Socket	HDS-24-3716F
Quantity		Size AWG/MCM (mm²)		Service Voltage Rating
37		16 (1.3)		D

Keyway Positions
01 - 15°
02 - 45°
03 - 90°



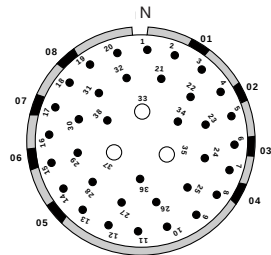
Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	C24	Pin	HDS-C24-3516CM1
			Socket	HDS-C24-3516CF1
Quantity		Size AWG/MCM (mm²)		Service Voltage Rating
2		1/0 (52)		D
35		12 (3.3)		A

Keyway Positions
01 - 25°
02 - 76°
03 - 127°
04 - 178°
05 - 254°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	20	Pin	HDS-20-3516CM
			Socket	HDS-20-3516CF
Quantity		Size AWG/MCM (mm²)		Service Voltage Rating
3		10 (5.2)		A
35		16 (1.3)		A

Keyway Positions	
01 - 27°	05 - 225°
02 - 60°	06 - 255°
03 - 90°	07 - 283°
04 - 117°	08 - 315°

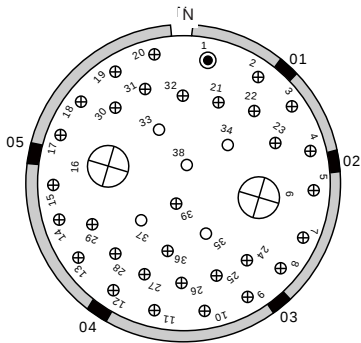


Thirty-Nine Contacts, Fourty-Two Contacts Forty-Six Contacts, Forty-Seven Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	C28	Pin	HDS-C28-3112CM
			Socket	HDS-C28-3112CF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
1	8 (7.6)	D
2	1/0 (54)	D
5	10 (5.2)	S
31	12 (3.3)	A

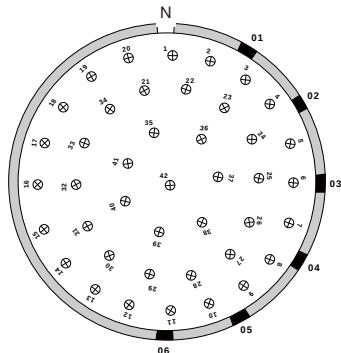
Keyway Positions
01 - 40°
02 - 80°
03 - 140°
04 - 210°
05 - 280°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	28	Pin	HDS-28-4212M
			Socket	HDS-28-4212F

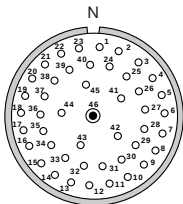
Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
42	12 (3.3)	D

Keyway Positions
01 - 30°
02 - 60°
03 - 90°
04 - 120°
05 - 150°
06 - 180°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	16	Pin	HDS-16-4516CM
			Socket	HDS-16-4516CF

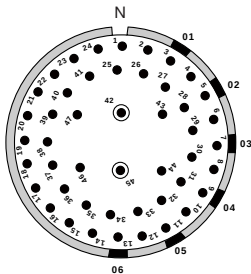
Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
45	18 (1.0)	A
1	8 (7.6)	A



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	20	Pin	HDS-20-4516CM
			Socket	HDS-20-4516CF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
2	8 (7.6)	D
45	16 (1.3)	A

Keyway Positions
01 - 30°
02 - 60°
03 - 90°
04 - 120°
05 - 150°
06 - 180°

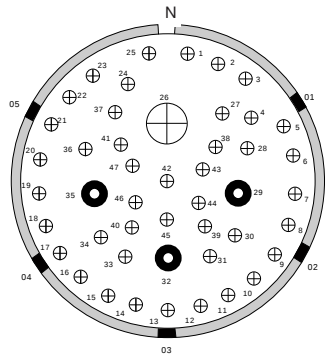


Fourty-Seven Contacts
Fifty Contacts
Fifty-Five Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	C28	Pin	HDS-C28-4312CM1
			Socket	HDS-C28-4312CF1

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
1	1/0 (54)	D
3	4 (21)	D
43	12 (3.3)	A

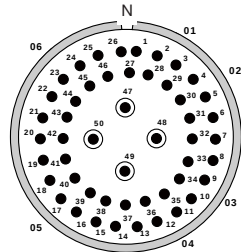
Keyway Positions
01 - 60°
02 - 120°
03 - 180°
04 - 240°
05 - 300°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	20	Pin	HDS-20-4616CM
			Socket	HDS-20-4616CF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
4	8 (7.6)	D
46	16 (1.3)	A

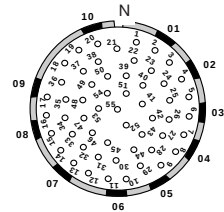
Keyway Positions
01 - 30°
02 - 60°
03 - 120°
04 - 150°
05 - 225°
06 - 315°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	16	Pin	HDS-16-5518M
			Socket	HDS-16-5518F

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
55	18 (1.0)	Inst.

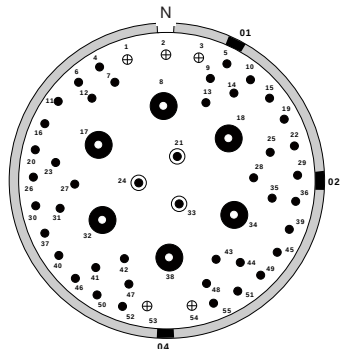
Keyway Positions
01 - 32°
02 - 60°
03 - 90°
04 - 117°
05 - 150°
06 - 180°
07 - 220°
08 - 255°
09 - 285°
10 - 345°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	28	Pin	HDS-28-4116CM
			Socket	HDS-28-4116CF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
3	8 (7.6)	D
6	4 (21)	D
5	12 (3.3)	A
41	16 (1.3)	A

Keyway Positions
01 - 30°
02 - 90°
04 - 180°



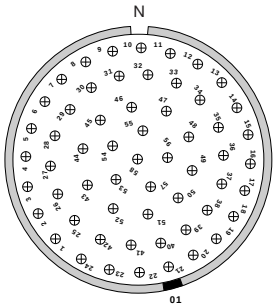
Fifty-Eight Contacts

Sixty Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
1	Solder	24	Pin	HDS-24-5812M1
			Socket	HDS-24-5812F1
2	Crimp	24	Pin	HDS-24-5812M
			Socket	HDS-24-5812F

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
58	12 (3.3)	A

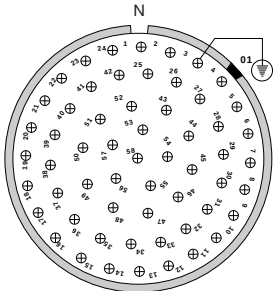
Keyway Positions
01 - 165°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	24	Pin	HDS-24-5812GM
			Socket	HDS-24-5812GF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
58	12 (3.3)	A

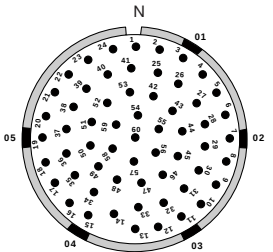
Keyway Positions
01 - 45°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	20	Pin	HDS-20-6016M
			Socket	HDS-20-6016F

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
60	16 (1.3)	A

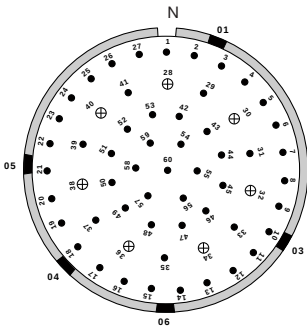
Keyway Positions
01 - 30°
02 - 90°
03 - 150°
04 - 210°
05 - 270°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	24	Pin	HDS-24-5316CM
			Socket	HDS-24-5316CF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
7	12 (3.3)	A
53	16 (1.3)	A

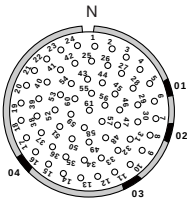
Keyway Positions
01 - 30°
02 - 90°
03 - 150°
04 - 210°
05 - 270°



Sixty-One Contacts, Sixty-Four Contacts Sixty-Eight Contacts, Seventy-Five Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	16	Pin	HDS-16-6118M
			Socket	HDS-16-6118F
3	Crimp	16	Pin	HDS-16-6118M3
			Socket	HDS-16-6118F3

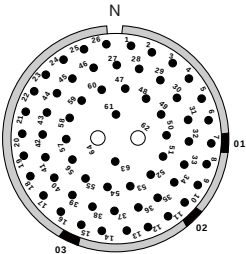
Keyway Positions
01 - 75°
02 - 105°
03 - 150°
04 - 232°



Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
61	18 (1.0)	Inst.

Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	20	Pin	HDS-20-6216CM
			Socket	HDS-20-6216CF

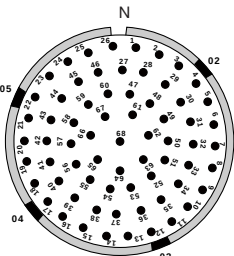
Keyway Positions
01 - 90°
02 - 135°
03 - 202°



Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
2	10 (5.2)	A
62	16 (1.3)	A

Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	20	Pin	HDS-20-6816M
			Socket	HDS-20-6816F

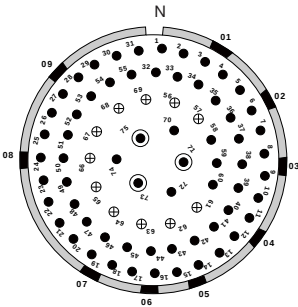
Keyway Positions
02 - 45°
03 - 157°
04 - 228°
05 - 292°



Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
68	16 (1.3)	A

Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	24	Pin	HDS-24-6116CM
			Socket	HDS-24-6116CF

Keyway Positions	
01 - 30°	06 - 180°
02 - 60°	07 - 207°
03 - 90°	08 - 270°
04 - 127°	09 - 311°
05 - 160°	



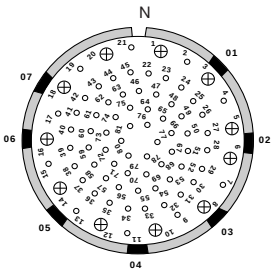
Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
3	8 (7.6)	A
11	12 (3.3)	A
61	16 (1.3)	A

Eighty-One Contacts
Ninety Contacts
One-Hundred Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	20	Pin	HDS-20-7018CM
			Socket	HDS-20-7018CF

Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
11	12 (3.3)	A
70	18 (1.0)	A

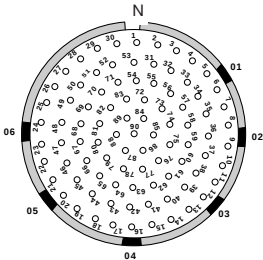
Keyway Positions
01 - 45°
02 - 90°
03 - 135°
04 - 180°
05 - 225°
06 - 270°
07 - 300°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	20	Pin	HDS-20-9018M
			Socket	HDS-20-9018F

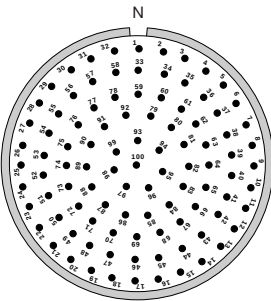
Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
90	18 (1.0)	A

Keyway Positions
01 - 54°
02 - 90°
03 - 130°
04 - 180°
05 - 225°
06 - 270°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	24	Pin	HDS-24-10016M
			Socket	HDS-24-10016F

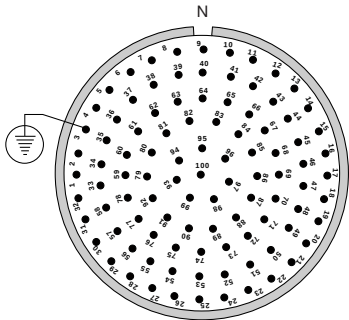
Quantity	Size AWG/MCM (mm²)	Service Voltage Rating
100	16 (1.3)	A



One-Hundred Contacts

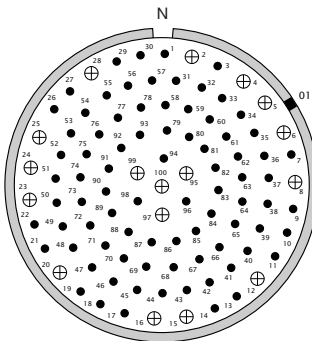
One-Hundred Fourty-Three Contacts

Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	24	Pin	HDS-24-10016GM
			Socket	HDS-24-10016GF
Quantity		Size AWG/MCM (mm²)		Service Voltage Rating
100		16 (1.3)		A



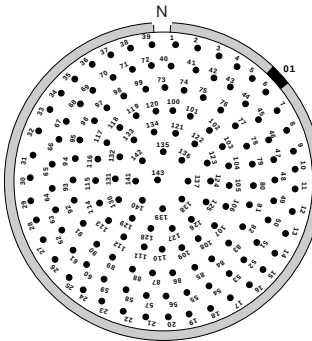
Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	28	Pin	HDS-28-8316CM
			Socket	HDS-28-8316CF
Quantity		Size AWG/MCM (mm²)		Service Voltage Rating
17		12 (3.3)		A
83		16 (1.3)		A

Keyway Positions
01 - 60°



Style	Term Type	Shell Size	Insert Gender	Part Number
2	Crimp	28	Pin	HDS-28-14316M
			Socket	HDS-28-14316F
Quantity		Size AWG/MCM (mm²)		Service Voltage Rating
143		16 (1.3)		A

Keyway Positions
01 - 46°





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