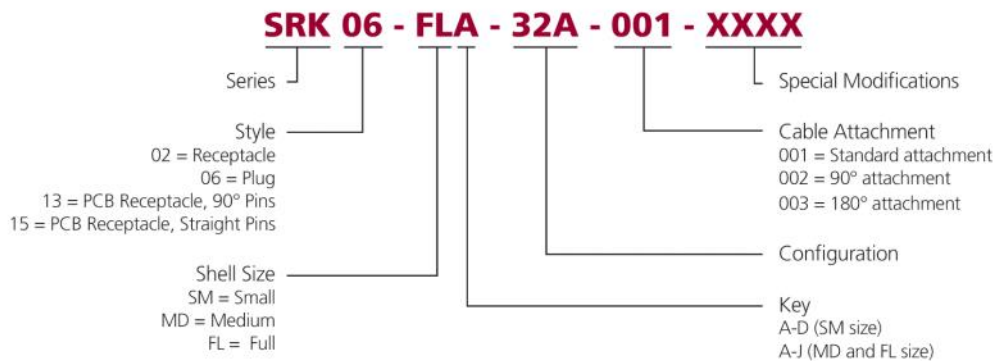


STRIKE Series Overview

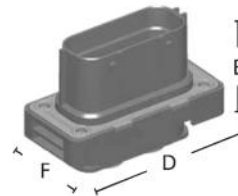
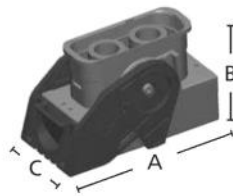
The STRIKE connector series features a lever lock system and is designed for heavy duty equipment applications. The environmentally sealed series offers three different size rugged housings that accept contacts from size 20 to Ø12mm with arrangements from 1 to 64 cavities. The lever lock combined with varying cavity arrangements allows the STRIKE Series to offer flexible options for electrical designs.



Part Numbering System



Dimensions



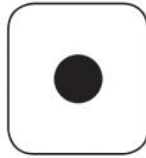
Shell Size	STRIKE Plug			STRIKE Receptacle		
	Overall Length A	Overall Height B	Overall Width C	Overall Length D	Overall Height E	Overall Width F
SM	1.879 (47.74)	2.256 (57.30)	1.902 (48.30)	2.028 (51.50)	2.768 (70.30)	1.811 (46.00)
MD	3.189 (81.00)	1.909 (48.50)	1.531 (38.90)	3.228 (82.00)	2.205 (56.00)	1.575 (40.00)
FL	3.358 (85.28)	1.913 (48.60)	2.780 (70.60)	3.228 (82.00)	2.205 (56.00)	2.953 (75.00)

Dimensions are for reference only.

■ Small (SM) Configurations



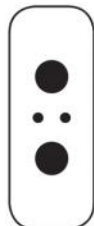
SM*-01A
1 - SRK Ø8mm



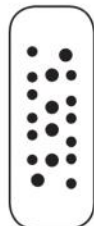
SM*-01B
1 - SRK Ø12mm



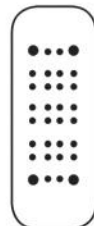
■ Medium (MD) Configurations



MD*-04A
2 - SRK Ø8mm
2 - Size 16

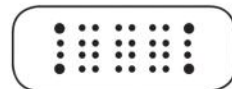


MD*-18A
6 - Size 12
12 - Size 16



MD*-32A
4 - Size 16
28 - Size 20

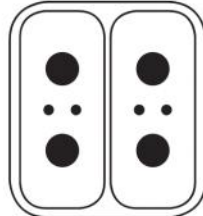
■ PCB Configurations



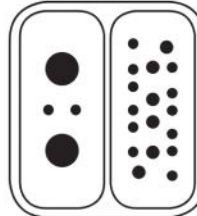
MD*-32A
4 - Size 16
28 - Size 20



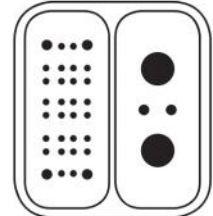
■ Full (FL) Configurations



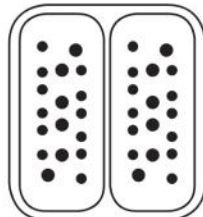
FL*-08A
4 - SRK Ø8mm
4 - Size 16



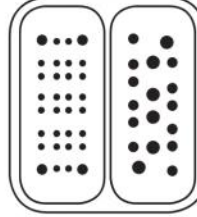
FL*-22A
2 - SRK Ø8mm
6 - Size 12
14 - Size 16



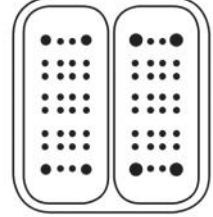
FL*-36A
2 - SRK Ø8mm
6 - Size 16
28 - Size 20



FL*-36B
12 - Size 12
24 - Size 16



FL*-50A
6 - Size 12
16 - Size 16
28 - Size 20



FL*-64A
8 - Size 16
56 - Size 20

Required Components

■ Cable Attachments

Cable attachments assist in high vibration applications by providing a location for securing wire bundles with a tie wrap. The use of a 5mm tie wrap is recommended. STRIKE connector arrangements include either a standard cable attachment (-001), a 90° attachment (-002), or a 180° attachment (-003) specified in the part number suffix.




standard attachment

90° attachment

180° attachment




■ Cavity Plug

Silicone cavity plugs are used to fill an unused cavity in a connector without an integrated rear seal. Filling the unused cavity maintains the integrity of the environmental seal. The -04A cavity arrangement requires a cavity plug if the size 16 cavities are unused.

Cavity Plug	Contact Size	Part Number	Material
	16	25JH0024	silicone

■ Wire Seal Grommets

Wire seal grommets are required on connectors without integrated rear seals in order to maintain an environmental seal. The size 16 wire seals are required for an environmental seal on any connector using the -04A cavity insert. The wire seals for Ø8mm and Ø12mm contacts are placed on the wire prior to crimping the contact, and then slid into place once the contact is inserted into the connector.




Grommet	Contact Size	Part Number	Insulation Range (mm)	Color
	16	25JH0040	.079-.118 (2.00-3.00)	Yellow
		25JH0042	.047-.079 (1.20-2.00)	Green
	Ø8mm	SRK-WS-25-001	.283-.394 (7.20-10.00)	Red
		SRK-WS-35-001	.394-.472 (10.00-12.00)	Blue
	Ø12mm	SRK-WS-70-001	.413-.630 (10.50-16.00)	Red
		SRK-WS-90-001	.630-.787 (16.00-20.00)	Blue

Accessories

Deutsch Industrial offers backshells that can be used to complement the connectors. The backshells provide additional protection and offer increased aesthetics.

■ Backshells

The Deutsch STRIKE Series backshells are designed to snap onto the connectors and accept 17mm, 22mm, and 26mm convoluted tubing. The backshells assist with wire routing to ease engagement and disengagement of the lever lock.

Backshell	Part Number	Size	Direction	Convoluted Tubing	Description
	SRK-BS-SM-ST-001	Small	Straight	N/A	Straight plastic backshell for small size plugs and receptacles, max insulation is Ø.472 (12.00)
	SRK-BS-SM-ST-002				Straight plastic backshell for small size plugs and receptacles, max insulation is Ø.591 (15.00)
	SRK-BS-SM-ST-003				Straight plastic backshell for small size plugs and receptacles, max insulation is Ø.827 (21.00)
	SRK-BS-MD-90-001	Medium	90°	NW17 & 22(-001) NW22(-002)	90° plastic backshell for medium or full size plugs and receptacles
	SRK-BS-MD-90-002				
	SRK-BS-FL-90-001	Full		NW22 & 26(-001) NW26(-002)	
	SRK-BS-FL-90-002				
	SRK-BS-MD-ST-001	Medium	Straight	NW17(-001) NW22(-002)	Straight plastic backshell for medium or full size plugs and receptacles
	SRK-BS-MD-ST-002				
	SRK-BS-FL-ST-001	Full		NW22(-001) NW26(-002)	
	SRK-BS-FL-ST-002				

Tools & Contacts

Deutsch Industrial offers several easy to use crimp tools for crimping both solid and stamped & formed contacts. Other tools are also available for the assembly and removal of contacts and secondary locking specific to the STRIKE Series.

■ Crimp Tools for STRIKE Series



Contact Size	Contact Style	Hand Crimp Tool	Production Crimp Tool
Ø8mm, Ø12mm	Solid	Hex shaped crimp per NFC20.130 standard*	
12-20	Solid	HDT-48-00	HDP-400
12	Stamped & Formed	DTT-12-00, DTT-12-01	DCT12-02-00, DCT12-02-01
16	Stamped & Formed	DTT-16-00, DTT-16-01, DTT-16-02	DCT1620-02-00
20	Stamped & Formed	DTT-20-00, DTT-20-02	DCT1620-02-00

*See drawing 8925-003-0000 for full specifications.

■ Assembly/Removal Tools for STRIKE Series







Contact Removal Tools

The STRIKE Series Ø8mm and Ø12mm contacts require the following removal tools.

Tool	Part Number	Connector	Description
	SRK-EXT-80	Plug and Receptacle	Removal tool for Ø8mm contacts
	SRK-EXT-120	Plug and Receptacle	Removal tool for Ø12mm contacts

TPA Tools

The STRIKE Series has integrated TPA, which require removal tools. Multiple STRIKE tools may be needed to service a single connector. TPA removal tools are specific to each connector half and some cavity arrangements.

Tool	Part Number	Connector	Description
	SRK-RT-02	Receptacle	TPA removal tool for receptacles Not for use with 18 cavity insert
	SRK-RT-02-G2	Receptacle	TPA removal tool for receptacles For use with 18 cavity insert
	SRK-RT-06	Plug	TPA removal tool for plugs Not for use with 18 cavity insert
	SRK-RT-06-G2	Plug	TPA removal tool for plugs For use with 18 cavity insert
	SRK-MT-02	Receptacle	TPA mounting tool for receptacles
	DT-RT1	Plug and Receptacle	Field service removal tool (TPA or contacts) for plugs and receptacles

Notice

The TPA removal tool for the 18 cavity insert cannot be used on any other insert.



■ Solid Contacts for STRIKE Series

Size	Solid Contact Part Numbers		Wire Size AWG (mm ²)	Recommended Strip Length Inches (mm)	Min. Contact Retention	Ref Crimp Tensile Lbs. (N)	Max Rated Amps at 125° Continuous
	Pin	Socket					
20	0460-202-20**	0462-201-20**	20 (0.50)	.156-.218 (3.96-5.54)	20 (89)	20 (89)	7.5
20	0460-010-20**	0462-005-20**	16-18 (1.0-0.75)	.156-.218 (3.96-5.54)	20 (89)	20 (89)	7.5
16	0460-202-16**	0462-201-16**	16-20 (1.5-0.50)	.250-.312 (6.35-7.92)	25 (111)	35-20 (156-89)	13
16	0460-215-16**	0462-209-16**	14 (2.0)	.250-.312 (6.35-7.92)	25 (111)	70 (311)	13
12	0460-204-12**	0462-203-12**	12-14 (3.0-2.0)	.222-.284 (5.64-7.21)	30 (134)	75-70 (334-311)	25
Ø8mm	SRK-PC-080-16-601	SRK-SC-080-16-601	6 (16)	.530-.580 (13.47-14.74)	56 (250)	367 (632)	---
Ø8mm	SRK-PC-080-20-601	SRK-SC-080-20-601	5	.530-.580 (13.47-14.74)	56 (250)	416 (1850)	---
Ø8mm	SRK-PC-080-25-601	SRK-SC-080-25-601	4 (25)	.530-.580 (13.47-14.74)	56 (250)	489 (2175)	---
Ø8mm	SRK-PC-080-32-601	SRK-SC-080-32-601	2	.530-.580 (13.47-14.74)	56 (250)	562 (2500)	---
Ø8mm	SRK-PC-080-35-601	SRK-SC-080-35-601	(35)	.530-.580 (13.47-14.74)	56 (250)	598 (2660)	150
Ø12mm	SRK-PC-120-40-601	SRK-SC-120-40-601	1 (40)	.837-.887 (21.27-22.54)	56 (250)	639 (2840)	---
Ø12mm	SRK-PC-120-50-601	SRK-SC-120-50-601	1/0 (50)	.837-.887 (21.27-22.54)	56 (250)	720 (3200)	---
Ø12mm	SRK-PC-120-70-601	SRK-SC-120-70-601	2/0 (70)	.837-.887 (21.27-22.54)	56 (250)	819 (3640)	---
Ø12mm	SRK-PC-120-95-601	SRK-SC-120-95-601	3/0 (95)	.837-.887 (21.27-22.54)	56 (250)	898 (3990)	300

Deutsch has tested Ø8mm contacts using 35mm² wire at 150 amps at 125°C continuous, and Ø12mm contacts using 95mm² wire at 300 amps at 125°C continuous. Therefore, these contacts are rated at full current at 125°C using the max wire gauge cable only. The amperage capacities for the remaining Ø8mm and Ø12mm contact options using smaller gauge cable will need to be tested based on individual applications.

Amperage ratings are based on single circuits. The test data does not take into account multiple contacts, mixed wire gauges, and other variables that may be present in an actual application.

Solid Contact Plating Codes

Part Number Suffix (**)	Material
31	Gold
141	Nickel
601	Silver



How To Instructions

■ Contact Insertion



Step 1:
Ensure TPA locking is open.



Step 2:
Hold connector with rear seal retainer facing you.



Step 3:
Push contact straight into the grommet until a positive stop is felt. A slight tug will confirm that it is properly locked in place.



Step 4:
Push to close the TPA. TPA will not close unless all contacts are fully seated in connector.

■ Removal of Deutsch Common Contacts



Step 1:
Use DT-RT1 to open the TPA with light turn against the locking clip.



Step 2:
Repeat step 1 on the other side of the TPA.



Step 3:
Remove the TPA.



Step 4:
Unlock the contacts and pull on the wire.

■ Removal of Deutsch Ø8mm and Ø12mm Contacts



Step 1:
After TPA is removed, insert the SRK removal tool over the contact.



Step 2:
Push the tool to open the contact retention fingers.



Step 3:
Pull the wire to remove the contact.