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Exclusive U.S. Distributor Specializing in Deutsch Industrial Products



DEUTSCH



STRIKE Series



STRIKE Series Overview

The STRIKE Series features a lever lock system that is designed for use in heavy duty equipment. The environmentally sealed STRIKE connectors are available in three sizes and offer a variety of contact arrangements and wire sizes to accommodate almost every application.

Material Specifications

Plug:

Shell: Plastic
Wedge: Plastic
Seals: Silicone rubber

Receptacle:

Shell: Plastic
Wedge: Plastic
Flange Seal: Silicone rubber
Threaded Inserts: Brass

Solid Contacts:

Pin: Copper Alloy
Socket: Copper Alloy
Finish: Nickel Plating*

Stamped & Formed Contacts:

Pin: Copper Alloy
Socket: Copper Alloy
Finish: Nickel Plating*

*Optional: Gold plating (consult factory)

Sealing Plugs:

Thermoplastic

Cavity Plugs:

Silicone rubber

Performance Specifications

Temperature

Operating at temperatures from -55° C to +125° C continuous at rated current.

Durability

No electrical or mechanical defects after 100 cycles of engagement and disengagement.

Vibration

No unlocking or unmating and exhibits no mechanical or physical damage after sinusoidal vibration levels of 20 G at 10 to 2000 Hz in each of the three mutually perpendicular planes. No electrical discontinuities longer than 1 microsecond.

Physical Shock

No unlocking, unmating, or other unsatisfactory result during or after 50 G in each of three mutually perpendicular planes. No electrical discontinuities longer than 1 microsecond. MIL-STD 202, Method 213, Condition "C".

Fluid Resistance

Connectors show no damage when exposed to most fluids used in industrial applications.

Insulation Resistance

1000 megohms minimum at 25° C.

Moisture Resistance

Properly wired and mated connection will withstand immersion under three feet of water without loss of electronic qualities or leakage.

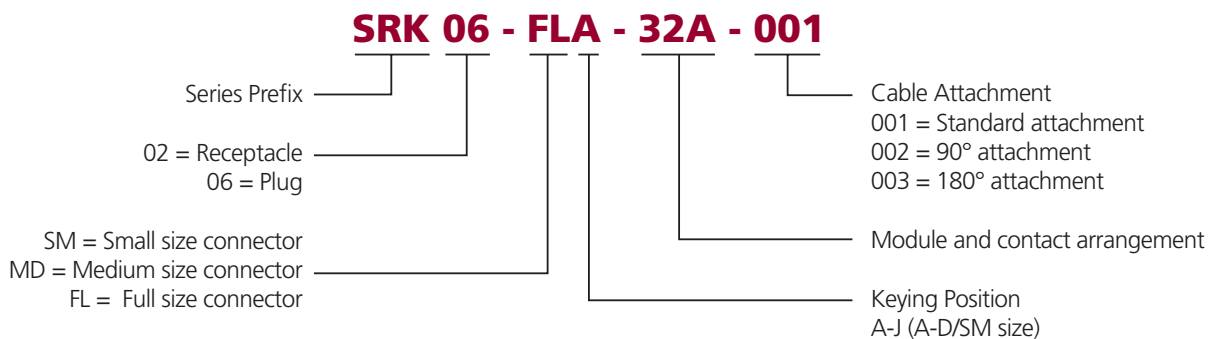
Dielectric Withstanding Voltage

Current leakage less than 2 milliamps at 1500 VAC.

Thermal Cycle

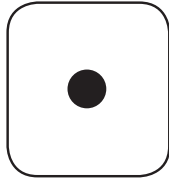
No cracking, chipping or leaking after 20 test cycles from -55° C to +125° C.

STRIKE Series Part Numbering System

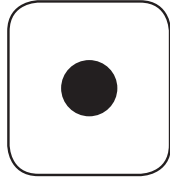




Small STRIKE Insert Arrangements

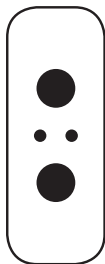


SM-01A
1 - SRK Ø8mm



SM-01B
1 - SRK Ø12mm

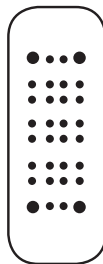
Medium STRIKE Insert Arrangements



MD-04A
2 - SRK Ø8mm
2 - Size 16

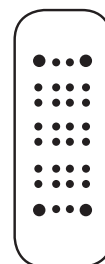


MD-18A
6 - Size 12
12 - Size 16



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

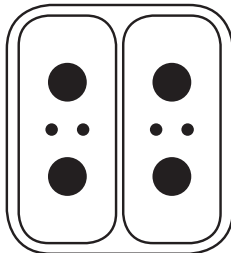
PCB STRIKE Insert Arrangements



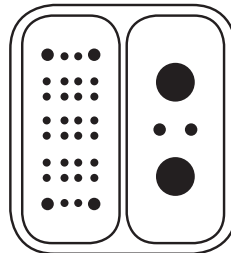
MD-32A
4 - Size 16
28 - Size 20



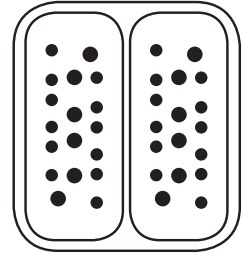
Full STRIKE Insert Arrangements



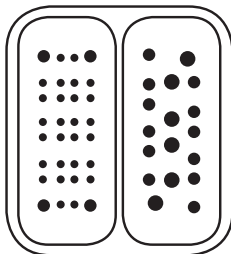
FL-08A
4 - SRK Ø8mm
4 - Size 16



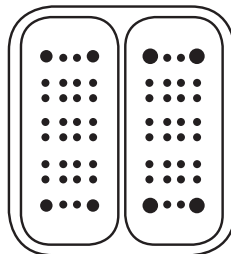
FL-36A
2 - SRK Ø8mm
6 - Size 16
28 - Size 20



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



Solid Contacts

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 (1.0-0.50)	.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)	---	367 (632)	150
Ø8mm	SRK-PC-080-20-601	SRK-SC-080-20-601	5	.530-.580 (13.47-14.74)	---	416 (1850)	150
Ø8mm	SRK-PC-080-25-601	SRK-SC-080-25-601	4 (25)	.530-.580 (13.47-14.74)	---	489 (2175)	150
Ø8mm	SRK-PC-080-32-601	SRK-SC-080-32-601	2	.530-.580 (13.47-14.74)	---	562 (2500)	150
Ø8mm	SRK-PC-080-35-601	SRK-SC-080-35-601	(35)	.530-.580 (13.47-14.74)	---	598 (2660)	150
Ø12mm	SRK-PC-120-40-601	SRK-SC-120-40-601	1 (40)	.837-.887 (21.27-22.54)	---	639 (2840)	300
Ø12mm	SRK-PC-120-50-601	SRK-SC-120-50-601	1/0 (50)	.837-.887 (21.27-22.54)	---	720 (3200)	300
Ø12mm	SRK-PC-120-70-601	SRK-SC-120-70-601	2/0 (70)	.837-.887 (21.27-22.54)	---	819 (3640)	300
Ø12mm	SRK-PC-120-95-601	SRK-SC-120-95-601	3/0 (95)	.837-.887 (21.27-22.54)	---	898 (3990)	300

For size 12-20, see drawing 0425-205-0000. For size Ø12mm and Ø8mm, see drawing 8925-003-0000.

Stamped & Formed Contacts

Size	Stamped & Formed Contact Part Numbers		Carrier Strip Identification	Wire Size AWG (mm ²)	Wire Insulation O.D. Range	Recommended Strip Length Inches (mm)	Min. Contact Retention	Max Rated Amps at 125° Continuous
	Pin	Socket						
20	1060-20-01**	1062-20-01**	20-01	16-22 (1.5-0.35)	.075-.125 (1.91-3.15)	.150-.200 (3.81-5.08)	20 (89)	7.5
20	1060-20-02**	1062-20-02**	20-02	16-22 (1.5-0.35)	.051-.085 (1.30-2.16)	.150-.200 (3.81-5.08)	20 (89)	7.5
16	1060-14-01**	1062-14-01**	14-16	14-18 (2.0-.75)	.095-.150 (2.41-3.81)	.150-.200 (3.81-5.08)	25 (111)	13
16	1060-16-01**	1062-16-01**	16-18	14-18 (2.0-.75)	.075-.140 (1.91-3.55)	.150-.200 (3.81-5.08)	25 (111)	13
16	1060-16-06**	1062-16-06**	0.5-1.0	16-20 (1.0-.50)	.055-.100 (1.40-2.54)	.150-.200 (3.81-5.08)	25 (111)	13
16	1060-16-07**	1062-16-07**	0.75-2.0	14-18 (2.0-.75)	.075-.140 (1.91-3.55)	.150-.200 (3.81-5.08)	25 (111)	13
12	1060-12-01**	1062-12-01**	12-14	12-14 (4.0-2.0)	.113-.176 (2.87-4.47)	.225-.275 (5.72-6.99)	30 (134)	25

For size 12, see drawings 0425-041-0000 and 0425-208-0000, For size 16, see drawings 0425-039-0000, 0425-059-0000, and 0425-203-0000
For size 20, see drawings 0425-059-0000 and 0425-207-0000




Notes: **= Plating codes. Consult factory for alternate finishes.

Deutsch can only warrant electrical performance when proper parts, procedures, and tooling from approved crimp termination drawings are used.



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

Cable Attachments

Cable attachments assist in high vibration applications 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


Sealing Plugs

Sealing plugs must be used to fill any unused connector cavities to maintain an environmental seal. Sealing plugs are used in connectors with an integrated rear seal.

Sealing Plug	Part Number	Contact Size	Material
	0413-204-2005	20	plastic
photo unavailable	0413-003-1605	16	plastic
	114017	12	plastic

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	Part Number	Contact Size	Material
	25JH0024	16	silicone






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 and 22mm convoluted tubing. The rigid, durable backshells offer a high level of protection, provide strain relief, and improve aesthetics.

Backshell	Part Number	Size	Direction	Description
	SRK-BS-MD-90-001	Medium	90°	90° plastic backshell for STRIKE medium or full shell size plugs and receptacles
	SRK-BS-FL-90-001	Full		
	SRK-BS-MD-ST-001	Medium	Straight	Straight plastic backshell for STRIKE medium or full shell size plugs and receptacles
	SRK-BS-FL-ST-001	Full		
	SRK-BS-SM-ST-001	Small	Straight	Straight plastic backshell for small size plugs and receptacles with wire insulation range .413-.453 inches
	SRK-BS-SM-ST-002	Small	Straight	Straight plastic backshell for small size plugs and receptacles with wire insulation range .453-.571 inches
	SRK-BS-SM-ST-003	Small	Straight	Straight plastic backshell for small size plugs and receptacles with wire insulation range .571-.787 inches

Tooling





Deutsch Industrial offers crimp tools that are perfect fit for any application. 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
16	Stamped & Formed	DTT-16-00, DTT-16-01, DTT-16-02	DCT1620-02-00
20	Stamped & Formed	DTT-20-00, DTT20-02	DCT1620-02-00



Assembly/Removal Tools for STRIKE Series

Tool	Part Number	Connector	Description
	SRK-RT-02	Receptacle	Secondary lock removal tool for STRIKE series receptacles Not for use with 18 cavity insert
	SRK-RT-06	Plug	Secondary lock removal tool for STRIKE series plugs Not for use with 18 cavity insert
	SRK-MT-02	Receptacle	Secondary lock closing tool for STRIKE series receptacles
photo unavailable	SRK-EXT-80	Plug and Receptacle	Removal tool for Ø8mm contacts
photo unavailable	SRK-EXT-120	Plug and Receptacle	Removal tool for Ø12mm contacts
	SRK-RT-01	Plug and Receptacle	Field service contact removal tool for STRIKE series plugs and receptacles

Contact Insertion



1. Ensure secondary locking is open.



2. Hold connector with rear seal retainer facing you.



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.



4. Push to close the secondary locking.



Contact Removal of Deutsch Common Contacts



1. Use SRK-RT-01 to open the secondary locking with light turn against the locking clip.



2. Repeat step 1 on the other side of the secondary locking.



3. Remove the secondary locking.



4. Unlock the contacts and pull on the wire.

Contact Removal of Deutsch Ø8mm and Ø12mm Contacts

Follow steps 1-3 shown above to remove secondary locking.



1. Bring the SRK removal tool over the contact.



2. Push to open the clip fingers.



3. Pull the wire to remove the contact.