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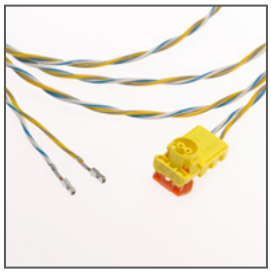
Squib Right-Angle AK-2 Cable Assemblies

98853 Right-Angle AK-2 Cable Assemblies

Achieve fail-safe connections in critical vehicle safety-restraint-systems with Molex's robust Squib right-angle AK-2 cable assemblies

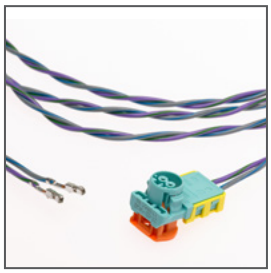
Features and Benefits

AK-2 interface with unique CPA design	Ensures scoop-proof (Kojiri-safe) mating operations, including in blind-mate conditions
Blocked-active CPA (Connector Position Assurance) design with travel distance over 3.00mm	Ensures connector is properly seated and locked into the receptacle (CPA will not lock prior to mating) Provides easy and reliable one-step connector mating without the need for tools
Robust, welded-cable connection design	Maintains low, stable contact resistance under severe temperature and vibration conditions for the vehicle's life span
Large ferrite core	Superior EMI (Electro Magnetic Interference) filtering from 300 to 1500 MHz
Plug holes in cover	Allow multiple testing of connector without any damage to the active area of the terminal prior to final connection on OEM assembly line
Fully compatible with two-way interface Code 1, 2 and 3, as defined by the global industry specifications including ISO-TS 19072-4 and USCAR 999-U-002-1-Z03 (Rev C)	Meets global industry specifications and all major OEM requirements



Squib Connector, Code 3, Terminated to Twisted-Pair Cable

Molex Squib and MXP120™ Sealed Connector Harness for Safety Restraint Systems



Squib Connector, Code 2, Terminated to Twisted-Pair Cable

Applications

Automotive and Commercial Vehicle:

- Airbags (Internal: driver, passenger and side)
- Seatbelt Pretensioners
- Active Hood Lift Systems
- Pedestrian Protection Airbags

Internal Vehicle Airbags: Driver, Passenger and Side

Seatbelt Pretensioners

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Squib Right-Angle AK-2 Cable Assemblies

Specifications

REFERENCE INFORMATION
Packaging: Bag
Mates With: AK-2 Standard Retainers
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes

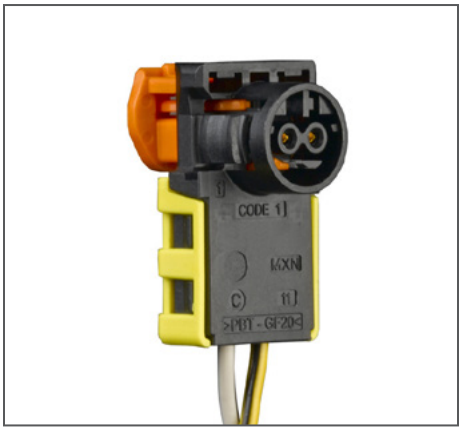
PHYSICAL
Housing: PBT, 20% Glass Filled
Contact: High conductivity Copper (Cu) alloy
Contact Resistance: 10mOhms max. (before and after aging)
Cable Connection Method: Welding
Contact Overlap: 1.20mm (.047") min.
Plating: Contact Area — 0.5µm Gold (Au) plated over 0.5 to 1.5µm Nickel (Ni) layer
Solder Tail Area — Blank Copper (Cu) Alloy
Overall dimensions: 14.20mm (.559") Width by 24.40mm (.961") Length by 6.50 (.256") mated height or 15.70mm (.618") not mated height
Operating Temperature: -40 to +100°C
Vibrations Class: V1 (Up to 3g)
Flammability Class: HB

ELECTRICAL
Voltage (max.): Up to 14V
Current (max.): 6.7A (Include 10% reduction of 7.5A for a temperature increase limited to +55°C)
Insulation Resistance: 100MOhms at 500V DC

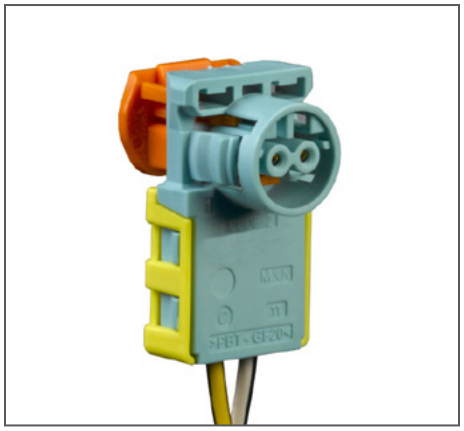
MECHANICAL
Contact Insertion Force: Internal (Automatic insertion)
Mating Force: One-step pushing on CPA: < 40N (10.12 lbf)
Two-steps pushing on CPA: < 40N (8.99 lbf)
Un-mating Force:
With CPA engaged: 135N (30.35 lbf) min.
With CPA dis-engaged: 40N (16.86 lbf) max.
CPA Blocking Force (Prior mating): > 125N (28.10 lbf)

Squib Steering Assembly

Squib Steering Assembly



Connector code 1 (Black coding)



Connector code 2 (Light green coding)

Connector code 3 (Yellow coding)

Ordering Information

Order No.*	AK-2 Standard Code	Cable Length
98853-3163	3	1.00m
98853-3062	2	
98853-2961	1	

*Please note part numbers shown above are for validation samples.
Custom part numbers will be generated for your specific application requirements

www.molex.com/link/squib.html