



Standard Materials & Finishes

Shell: Single piece polychloroprene moulding.
 Insulator: Neoprene.
 Contacts: Copper alloy coaxial, tin plated.

Mechanical Features

Coupling: 'Push-pull' friction.
 Contact Type: Solder or crimp with straight bolt on lugs for size 0000 AWG to 4 AWG cable.
 Contact Arrangements: Single pole coaxial construction.

Electrical Data

Maximum Contact Current Ratings: 1000 amps for 6 minutes at 24v D.C.
 Rated Current: 500 amps
 Voltage Rating: 110V DC.
 Contact Resistance: 0.5 milliohms max.
 Temperature Rating: -55°C to +100°C.



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SB-ORD

InterVehicle NATO Slave Start Connectors



Company Profile



Operating from the principal site in South Wales UK., AB Connectors, a subsidiary of TT electronics plc., is one of the recognised market leaders in design, test and manufacture of harsh environment interconnection systems, bespoke harness assemblies and equipment sub-units.

AB Connectors total commitment to providing customers with high levels of service, cost effectiveness, quality and innovative solutions in interconnection products, make it the ideal first choice supply partner.

Intervehicle Connectors

SB-ORD Interverhicle Connectors were designed to provide a quick foolproof method of restarting electrically disabled military vehicles in the field through a vehicle-to-vehicle battery jumper system.

Three primary battle-condition requirements were taken into consideration in the engineering of these connectors:

First that the interconnect operation be swift since the "jumping" operation immobilizes two vehicles in close proximity. This is accomplished through the design of a foolproof, snap-in, single connection receptacle.

The second consideration was that the system be capable of withstanding severe battle environments. The SB-ORD 102 connectors are of single piece, rubber body moulded construction impervious to engine fuel and lubricants, shockproof and dirt proof, via the use of a tight seal connector protector caps.

Finally, the interconnect system must provide full compatibility between types and makes of military combat vehicles, regardless of manufacturer. This requirement represents the single largest challenge to the design. To meet increased amperage requirements several NATO nations initially used a two-pin, two-connector arrangement for their vehicles requiring two cables in parallel to make the jump. Since this requirement multiplies the time factor by two on one hand, and confounds equipment compatibility on the other, a system was needed to overcome this problem. The solution is the SB-ORD Interverhicle 1000 amp range of connectors featuring a single twin cable and coaxial contact system.

	Description	AB Part No.	FV No.	
	Intervehicle Free Plug (Solder)	SB-ORD 102	FV564833	
			NATO Stock No 5935998022423	
	Intervehicle Free Plug (Crimp)	SB-ORD 102/C	FV564833	
		US Army Ordnance No 11682338	NATO Stock No 5935005670128	
	Terminal for Free plug	SB-ORD 110	FV627972	
	Gland Nut for SB-ORD 277	SB-ORD 213	FV634732	
	Cap for Fixed SB-ORD 277 / 759 / 242	SB-ORD 215	FV627966	
			NATO Stock No 5935998028442	
	Terminal Lug (2 off) for 102C / 233 / 277 *	SB-ORD 224/A/B/C/D	FV620744/5/6/7	
	Intervehicle Fixed Socket (Insulated with Return Contact)	SB-ORD 233	FV564836	
			NATO Stock No 5935996349482	
	Cap for Free SB-ORD 102 & 102C	SB-ORD 237	FV627932	
	Fixed Socket Insulated without Return Socket	SB-ORD 242	-	
	Fixed Socket Assembly (Non Insulated)	SB-ORD 273	-	
			NATO Stock No 5935997344019	
	Fixed Box Mounted Insulated Starter Socket	SB-ORD 277	FV634272	
			NATO Stock No 5935998098706	
	Insulated Fixed Socket (with Return Contact & Link)	SB-ORD 759	FV63400	
		US Army Ordnance No 116823450	NATO Stock No 5935010129820	
	Fixed 4 Hole Mounting	SB-ORD 954	-	
		US Army Ordnance No 11682345		
	Intervehicle Free Plug - Short (Single Entry Gland)	SB-ORD 996	-	
	Free Interverhicle - Short (Single Entry PG 13.5 Gland)	SB-ORD 1000	-	
	Free Interverhicle - Short (Double Entry Gland)	SB-ORD 1013	-	
	Slave Start Harness †	AB-ORD 921.006/015/030	FV3242844/5/6	

* Dimensions for SB-ORD 224 A / B / C / D

Cable Size	Cable Dia.Ins	Cable Dia. mm	Terminal		'O' Ring Outlet Seals	
			AB No.s	F.V.No.s	AB No.s	F.V.No.s
0000 AWG	0.58/0.72	14.8/15.6	SB-ORD 224/D	FV620747	SB-ORD 119	-
00 AWG	4.46/0.49	11.6/12.4	SB-ORD 224/C	FV620746	SB-ORD 153	-
2 AWG	0.33 NOM	8.4 NOM	SB-ORD 224/B	FV620745	SB-ORD 153	-
4 AWG	0.26 NOM	6.6 NOM	SB-ORD 224/A	FV620744	SB-ORD 153	-
70mm ²	0.673NOM	17.1NOM	AB-ORD936	-	AB-ORD119	-

† Slave Start Harness

AB Part No.	Length
AB-ORD 921.006	6 ft 1.82m
AB-ORD 921.015	15 ft 4.57m
AB-ORD 921.030	30 ft 9.14m