ABB MS Bayonet Connectors
Technical Data
Mechanical & Electrical Features

Mechanical Features:

Coupling: 3 pin bayonet.

Number of Contacts: From 1 to 61.

Contact Termination: Crimp or solder.

Sealing: Dynamic sealing ring and individual wire seal grommet.

Matings: 500 minimum.

Earth Grounding: 360^0 wave washer & grounding ring.

Environmental Ratings:

Temperature Range: -55^0C to $+125^0$C.
-40C to 190^0C (HTABB)

Waterproof: 1 bar when using sealed accessory.

Shock severity: 75g.

Vibration: 5Hz to 500Hz long endurance. 30 hour test at 10g.

Acceleration: 50g.

Standard Materials:

Connector Metalwork: Aluminium Alloy.

Insulator, Grommet & Bushing: Polychloroprene or Flouro-carbon (HTABB)

Contacts: Copper Alloy.

Accessory Hardware: Aluminium Alloy.

Standard Plating Finishes:

Aluminium Parts: olive drab chromate over zinc cobalt plate.*

*Consult factory for alternative finishes.

Contacts: Silver **or** gold.

Contact Current Rating:

Contact Size AWG (Metric)	Max Current @ 20^0 C *	Rated Current @ 85^0 C *	De-rated @ 85^0 C **
20 (10)	7.5 amps	5 amps	3 amps
16/16S (15/15S)	22 amps	13 amps	10 amps
12 (25)	41 amps	23 amps	20 amps
8 (100)	73 amps	46 amps	42 amps
4 (160)	135 amps	80 amps	75 amps
0 (500)	245 amps	150 amps	135 amps
0000	500 amps	300 amps	See note

* Single contact in isolation   ** Grouped contacts

Note. Consult sales office for further information.

Contact Current De-rating Curve

Contact Arrangement Service Rating
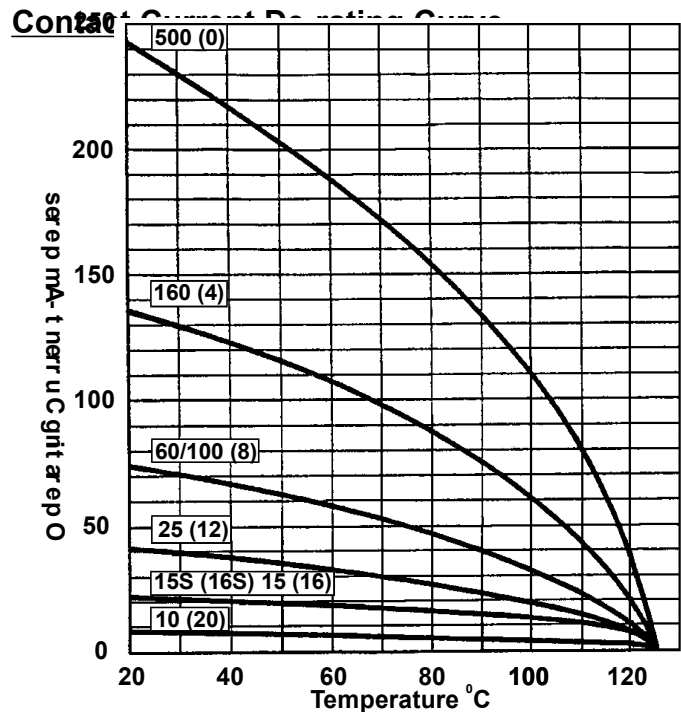
Service Rating	Sea Level - Volts			
	Inst.	A	D	E
Working Voltage DC or AC Peak	350	700	1,250	1,750
Voltage Proof AC RMS	1,000	2,000	2,800	3,500
Min. Flashover AC RMS	1,400	2,800	3,600	4,500

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Technical Data

Part Number Explanation

ABB	06	EV	28	21	P	C	N	***	**

Series Prefix — Shell Style — Accessory Type — Shell Size — Contact Arrangement — Contact Type — Contact Termination — Insert Orientation — Modification Code — Contact Supply
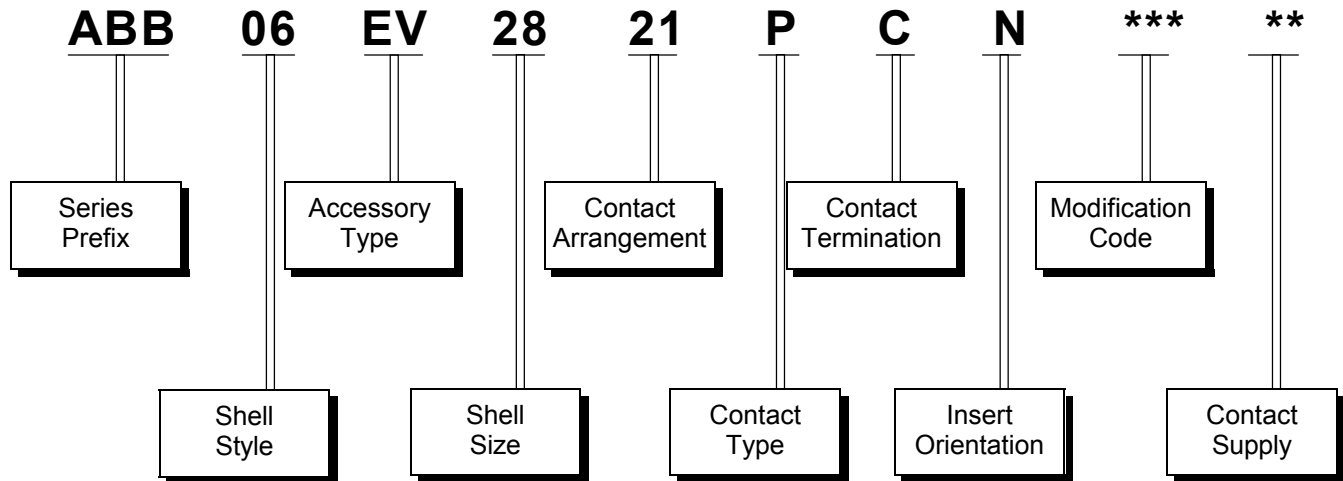
Series Prefix: ABB

Shell Style: 00 - Square flange receptacle, front panel munted.

01 - Cable mounted receptacle.

03 - Square flange receptacle, rear panel munted.

06 - Plug with arctic grip coupling nut and RFI grounding.

NS06 - Plug with arctic grip coupling nut, no RFI grounding.

E06 - Plug with fine knurl grip coupling nut.

SE06 - Plug with fine knurl grip coupling nut with RFI grounding.

07 - Through bulkhead receptacle.

08 - Plug with 90⁰ angle outlet.

09 - Single hole mounted receptacle.

10 - Panel mounted plug with arctic grip coupling nut.

12 - Panel mounted plug with fine knurl grip coupling nut.

Accessory Type: See relevent catalogue pages.

Shell Size: 10SL to 40

Contact Arrangement: See pages

Contact Type: **P** pin, **S** socket
H pin/socket assembly for through bulkhead connector style **07**.

Contact Termination: **C** crimp removeable, **S** bonded solder. Omit for bulkhead style **07** (bonded).
See page   for printed circuit tail detail.

Insert Orientation: **N** normal. Alternative positions **W X Y Z.** See page   for detail.

Modification Code: Consult factory.

Contact Supply: Leave blank for connector supplied with silver plated contacts.
Insert **P3** for connector supplied with standard gold plated contacts.
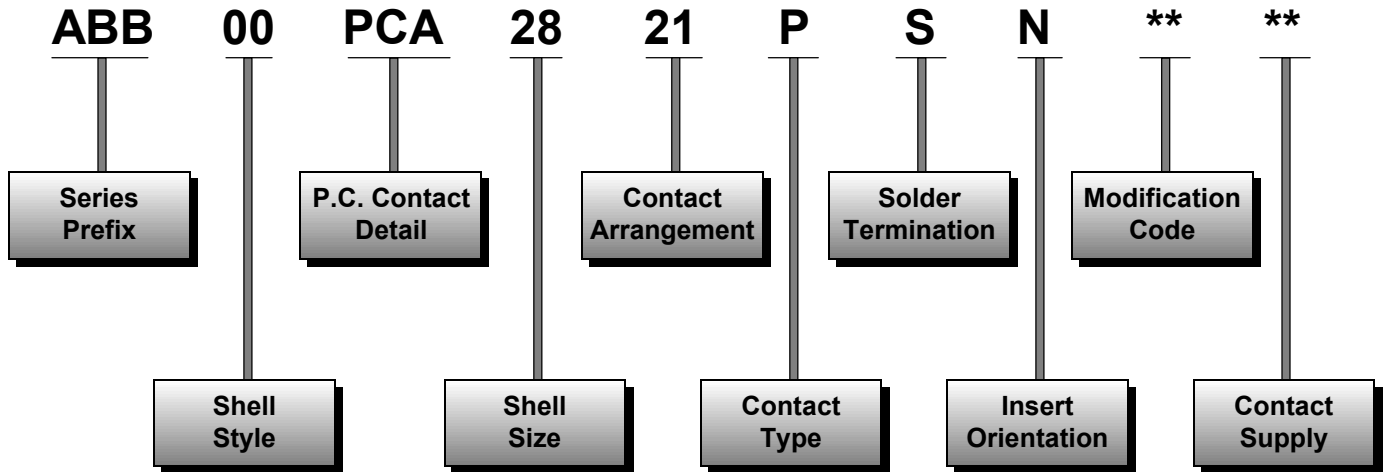Insert **V0** for connector supplied without contacts.

Note.
The company reserves the right and may change or vary specification without prior written notice.

ABB   **00**   **PCA**   **28**   **21**   **P**   **S**   **N**   ******   ******

| Series Prefix | | P.C. Contact Detail | | Contact Arrangement | | Solder Termination | | Modification Code |

| | Shell Style | | Shell Size | | Contact Type | | Insert Orientation | | Contact Supply |

Series Prefix: **ABB** - ABB MS Bayonet

Shell Style: **00 -** Square flange receptacle, front panel munted.

    03 - Square flange receptacle, rear panel munted.

    09 - Single hole mounted receptacle.

    10 - Panel mounted plug with arctic grip coupling nut.

    12 - Panel mounted plug with fine knurl grip coupling nut.

P.C. Contact Detail: See page

Shell Size: **10SL to 40**

Contact Arrangement: See pages

Contact Type: **P** pin, **S** socket

Contact Termination: **S** bonded, solder.

Insert Orientation: **N** normal. Alternative positions **W X Y Z.** See page   for detail.

Modification Code: Consult factory.

Contact Supply: **00** for connector supplied with silver plated contacts.
   01 for connector supplied with solder dipped silver plated contacts.
   02 for connector supplied with standard gold platd contacts.
   03 for connector supplied with solder dipped standard gold plated contacts.

Note.
The company reserves the right and may change or vary specification without prior written notice.