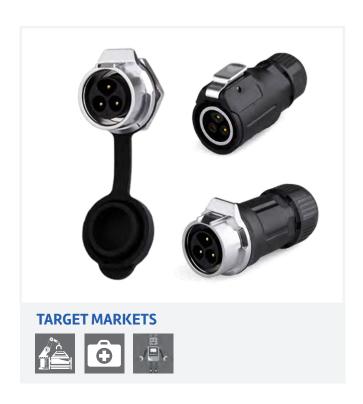


IP67 SEALED RUGGED CIRCULAR LATCHING CONNECTORS AND CABLES

BrightConnX™ MRD series IP67 connectors and cable assemblies are available in 2, 3, 4, 5, 6, 7, 8, and 9 position insert arrangements. Housing options include all plastic constructions as well as metal locking bodies for greater durability. The quick release metal thumb latch provides positive locking to ensure secure and reliable mating and ease of unmating. Panel mount and cable termination options are available with or without finger-proof protection.

Finished cable assemblies are available in all insert arrangements and form factors, including double end termination and single ended ("pigtail") version, in 1m and 3m standard lengths. Customer-defined cable lengths are also available from the factory on request.

- IP67 in the mated conditions water/dust proof
- Can be used for power or signal connections
- Available in 2, 3, 4, 5, 6, 7, 8 and 9 position pin count insert arrangements
- Size A (all plastic) and Size B (plastic or metal options) form factors
- Size B connectors are available with pins or sockets in the plug or receptacle



FEATURES

- IP67 sealed when mated
- Shell Size A in 2, 3, 4, 5, 6, 7, 8 position
 Shell Size B in 2, 3, 4, 5, 7, 8, 9 position
- Up to 10A current rating
- Ruggedized circular design
- Thumb activated latch on plug
- Receptacles available with cable or panel mount configurations
- Available dust caps
- Cable assemblies in a variety of standard lengths, custom configurations on request
- RoHS Compliant

BENEFITS

- Protection against dust and moisture incursion
- Mutiple configurations for ultimate flexibility
- Supports high power applications
- Shock and Impact resistant for a variety of industrial applications
- Positive locked mating, easy to unlatch
- Provides Cable to Cable or Cable to Panel mating
- Provides protection to unmated connectors
- Allows customers to avoid making their own cable assemblies, and to easily specify cables to their end users
- Meets environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIAL

- Contacts: Copper alloy with gold flash over 50u" (1.27um) min.
- Housing: Engineering thermoplastic, UL94V-0 rated, black
- Metal Shell: Die cast zinc alloy, chrome plated
- Cable: PER UL AWM 2464, 300V, VW-1, stranded copper conductors with PVC Insulation, black PVC jacket

ELECTRICAL PERFORMANCE

- Current Rating
- Size A:

5A per contact (2–6 position) with 20AWG wire max. 3A per contacts (7–8 position) with 22 AWG wire max.

■ Size B:

10A per contact (2-4 position) with 16 AWG wire max.5A per contact (5, 7-9 position) with 20AWG wire max.

- Voltage Rating:
 - Size A: 125VAC (2-6 position); 100VAC (7-8 position)
 - Size B: 400VAC (2-4 position); 250VAC (5, 7-9 position)
- Contact Resistance:
 - Size A: 10mΩ max.
- Size B: 5mΩ max.
- Insulation Resistance: 500MΩ min.

• Dielectric Withstanding Voltage:

Size A: 1500VDC

Size B: 2500VDC (2-4 Position), 1500VDC (5-9 Position)

MECHANICAL PERFORMANCE

• Durability: 500 mating cycles

APPROVALS & CERTIFICATION

- RoHS
- REACH/SVHC

ENVIRONMENTAL

- RoHS: This product is compatible according to the European Union Directive 2011/65/EU
- Operating Temperature Range: -40°C to +105°C
- Salt Spray: Per EIA364-26, 250 hours
- Temperature Rise: 30°C ΔT max. above ambient at rated current

PACKAGING

Box

TARGET MARKETS/APPLICATIONS



Power Generation Smart Grid LED Lighting



CT MRI Ultrasonic



Robotics

EXAMPLE PART NUMBERS

DESCRIPTION	PART NUMBER
Size A Receptacle, Panel Mount, with Dust Cover, Plastic Housing, 3 Socket Contacts	MRD-AH03-L13-000
Size A Receptacle, Cable Termination, Plastic Housing, 5 Socket Contacts	MRD-AH05-M15-000
Size A Plug, Cable Termination, Plastic Housing, 8 Pin Contacts	MRD-AP08-M15-000
Size B Receptacle, Panel Mount, Metal Housing, 2 Socket Contacts	MRD-BF02-L13-000
Size B Recepacle, Panel Mount, Plastic Housing, 5 Pin Contacts	MRD-BJ05-L13-000
Size B Receptacle, Cable Termination, Metal Housing for 8.0mm dia Cable, 7 Pin Contacts	MRD-BG07-M16-000
Size B Plug, Cable Termination, Plastic Housing for 4.5mm dia Cable, 4 Socket Contacts	MRD-BR04-M17-000
Size A Cable, Plastic Plugs Both Ends, 3 Pin Contacts 50cm Length	MRD-AP03-CBP-500
Size A Cable, Plastic Plug One End, 6 Pin Contacts, 1.6m Length	MRD-AP06-CAP-A60
Size B Cable, Metal Plugs Both Ends, 9 Socket Contacts, 3.0m Length	MRD-BN09-CBP-C00
Size B Cable, Plastic Receptacle One End, 4 Socket Contacts, 15.0m Length	MRD-BH04-CAP-K50

Multiple variations exist, for configurations not listed please consult factory.

CONNECTOR PART NUMBERS

Size	Style	Mounting	Dust Cover	Cable Diameter (mm)	Housing	Contacts	Current Rating (A)	Positions (X)	Part Numbers
		DANIEL	VEC	N1 /A			5	2, 3, 4, 5, 6	MDD ALIOV 112 000
	DECEDIACIE	PANEL	YES	N/A			3	7, 8	MRD-AH0X-L13-000
	RECEPTACLE					SOCKET	5	2, 3, 4, 5, 6	AADD ALIOV AATE OOG
					DI ACTIC		3	7, 8	MRD-AH0X-M15-000
A		CABLE	NO	3.0 TO 6.0	PLASTIC -	PIN	5	2, 3, 4, 5, 6	14DD 4DOV 1415 000
	PLUG						3	7, 8	MRD-AP0X-M15-000
						SOCKET	5	3	MRD-AR03-M15-000
	RECEPTACLE	PANEL	YES	N/A		PIN	5	3	MRD-AJ03-L13-000
						COCKET	10	2, 3, 4	MDD DEGY 112 000
					METAL	SOCKET	5	5, 7, 8, 9	MRD-BF0X-L13-000
					METAL	DIM	10	2, 3, 4	MDD DC0V 112 000
		DANIEL	,,,,,,			PIN	5	5, 7, 8, 9	MRD-BG0X-L13-000
		PANEL	YES	N/A		COCKET	10	2, 3, 4	MDD DUOY 142 000
					DI ACTIC	SOCKET	5	5, 7, 8, 9	MRD-BH0X-L13-000
İ					PLASTIC		10	2, 3, 4	
						PIN	5	5, 7, 8, 9	MRD-BJ0X-L13-000
							10	2, 3, 4	
						SOCKET	5	5, 7, 8, 9	MRD-BF0X-M16-000
					METAL		10	2, 3, 4	
	DECEDE 4 51 5					PIN	5	5, 7, 8, 9	MRD-BG0X-M16-000
	RECEPTACLE			7.0 TO 9.0			10	2, 3, 4	
		CABLE	NO			SOCKET	5	5, 7, 8, 9	MRD-BH0X-M16-000
					PLASTIC	PIN	10	2, 3, 4	MRD-BJ0X-M16-000
							5	5, 7, 8, 9	
				4.0 TO 7.0	METAL -	SOCKET	10	2, 3, 4	MRD-BF0X-M17-000
İ							5	5, 7, 8, 9	
						PIN	10	2, 3, 4	MRD-BG0X-M17-000 MRD-BH0X-M17-000
							5	5, 7, 8, 9	
В					PLASTIC -	SOCKET	10	2, 3, 4	
							5	5, 7, 8, 9	
							10	2, 3, 4	MRD-BJ0X-M17-000
						PIN	5	5, 7, 8, 9	
				70.70.00	METAL -	SOCKET	10	2, 3, 4	MDD DNOV M16 000
							5	5, 7, 8, 9	MRD-BN0X-M16-000
						PIN	10	2, 3, 4	MRD-BM0X-M16-000
						PIIN	5	5, 7, 8, 9	000-10 ואו-עטואומ-מאואו
				7.0 TO 9.0		SOCKET	10	2, 3, 4	MRD-BR0X-M16-000
					DI ACTIC	JUCKET	5	5, 7, 8, 9	חחח-חואו-עחשם-חשואו
	PLUG				PLASTIC	PIN	10	2, 3, 4	MRD-BP0X-M16-000
						FIIN	5	5, 7, 8, 9	ואורס-מבמע-וואו 10-000
					METAL -	COCKET	10	2, 3, 4	- MRD-BN0X-M17-000 - MRD-BM0X-M17-000
						SOCKET	5	5, 7, 8, 9	
						DIM	10	2, 3, 4	
				4.0 TO 7.0		PIN	5	5, 7, 8, 9	
					PLASTIC -	SOCKET	10	2, 3, 4	MRD-BR0X-M17-000
							5	5, 7, 8, 9	
							10	2, 3, 4	MRD-BP0X-M17-000
						PIN	5	5, 7, 8, 9	וואי-מצטא-ואוו/-עטט

CABLE ASSEMBLY PART NUMBERS

CAL		JULITIDE	PARTIN	OMBL	13				
Size	Cable Jacket	Connector 1	Connector 2	Housing	Contacts	Current Rating (A)	Conductor Size (AWG)	Positions (X)	"Part Numbers X=Positions; YY=Length"
					5	20	2, 3, 4, 5, 6		
	A PVC F	51115	PLUG	PLASTIC	PIN -	3	22	7, 8	MRD-AP0X-CBP-YY0
A		PLUG	NONE			5	20	2, 3, 4, 5, 6	MRD-AP0X-CAP-YY0
						3	22	7, 8	
			PLUG	METAL	SOCKET	10	16	2, 3, 4	MRD-BN0X-CBP-YY0
						5	22	5, 7, 8, 9	
			NONE			10	16	2, 3, 4	MRD-BN0X-CAP-YY0
						5	22	5, 7, 8, 9	
			PLUG	METAL	PIN	10	16	2, 3, 4	MRD-BM0X-CBP-YY0
			PLUG			5	22	5, 7, 8, 9	
			NONE			10	16	2, 3, 4	MDD DMOV CAD VVO
		DI II G	NONE			5	22	5, 7, 8, 9	MRD-BM0X-CAP-YY0
		PLUG	DILIC			10	16	2, 3, 4	MDD BDOV CBD VVO
			PLUG		COCKET	5	22	5, 7, 8, 9	MRD-BR0X-CBP-YY0
			NONE		SOCKET	10	16	2, 3, 4	MRD-BR0X-CAP-YY0
			NONE	DIACTIC	,	5	22	5, 7, 8, 9	
			PLUG	- PLASTIC	PIN -	10	16	2, 3, 4	MRD-BP0X-CBP-YY0
						5	22	5, 7, 8, 9	
			NONE			10	16	2, 3, 4	MRD-BP0X-CAP-YY0
_	DVC					5	22	5, 7, 8, 9	
В	PVC	RECEPTACLE	RECEPTACLE	METAL	SOCKET	10	16	2, 3, 4	MRD-BF0X-CBP-YY0
						5	22	5, 7, 8, 9	
			NONE			10	16	2, 3, 4	MRD-BF0X-CAP-YY0
						5	22	5, 7, 8, 9	
			RECEPTACLE		PIN -	10	16	2, 3, 4	MRD-BG0X-CBP-YY0
						5	22	5, 7, 8, 9	
			NONE			10	16	2, 3, 4	MRD-BG0X-CAP-YY0
						5	22	5, 7, 8, 9	
			RECEPTACLE		SOCKET -	10	16	2, 3, 4	MRD-BH0X-CBP-YY0
				PLASTIC		5	22	5, 7, 8, 9	
			NONE			10	16	2, 3, 4	MRD-BH0X-CAP-YY0
						5	22	5, 7, 8, 9	
			RECEPTACLE		PIN ·	10	16	2, 3, 4	MRD-BJOX-CBP-YYO MRD-BJOX-CAP-YYO
						5	22	5, 7, 8, 9	
			NONE			10	16	2, 3, 4	
						5	22	5, 7, 8, 9	

CABLE DIAMETER

CABLE LENGTH

Size	Conductor Size (AWG)	Current Rating (A)	Positions	Cable Diameter (mm)
			2	5.0
			3	5.2
	20	5	4	5.6
A			5	6.0
			6	6.5
	22	3	7	5.8
	22	3	8	6.0
			2	6.3
	16	10	3	6.7
			4	7.3
В			5	5.3
	22	_	7	5.8
	22	5	8	6.0
			9	6.8

CABLE LENGTH ("YY" in Part Number)					
20 to 99	LENGTH IN CM				
A0 to A9	1 METERS + 0 TO 9 DECIMETERS				
B0 to B9	2 Meters + 0 to 9 Decimeters				
C0 to C9	3 Meters + 0 to 9 Decimeters				
D0 to D9	4 Meters + 0 to 9 Decimeters				
E0 to E9	5 Meters + 0 to 9 Decimeters				
F0 to F9	6 Meters + 0 to 9 Decimeters				
G0 to G9	7 Meters + 0 to 9 Decimeters				
H0 to H9	8 Meters + 0 to 9 Decimeters				
J0 to J9 9 Meters + 0 to 9 Decimeters					
K0 to K9	(9 10 Meters + 0 to 9 Meters				
L0 to L9	20 Meters + 0 to 9 Meters				
мо то м9	30 METERS + 0 TO 9 DECAMETERS				
CABLE LENGTH ORDERING CODE EXAMPLES: 75CM: YY="75" 6.3M: YY="F3" 25M: YY="L5" 80M: YY="M5"					