





ISO 9001:2015 & AWARDS



STATISTICAL QC, PROCESS/PRODUCT APPROVALS, DEFENCE, CACT, ERTL, ISI (BIS), UL, CE, OEMS etc.



PRESENCE IN INTERNATIONAL FAIRS



IN HOUSE DESIGN SECTION FOR PROJECT DESIGN



CNC WIRE CUTS, MILLING BACKED BY HEAT TREATMENT, STEEL ANALYSER, MOULD POLISHING ETC.



STATE OF ART QUALITY CONTROL DEPARTMENT WITH RELIABILITY & LIFE TESTERS, HARDNESS TESTERS, I.R., V.R., C.R., VIBRATION, COLD, DRY, DAMP TESTERS ETC.



## COMPANY PROFILE

**MANN ELECTRONICS** established in **1978** is a leading manufacturer of **electromechanical and custom built components** for Telecom, Electronics, UPS / Inverter, Electronic Energy meters, Consumer electronics, EMS, Refrigeration / air conditioning and Automobile Industry. MANN is an **ISO 9001:2015** company & is spread over 80000 sqft area. MANN has a host of **quality / process approvals** from **CACT, MNC's, DOT, Defence, ERTL, UL, CE, ISI/BIS** etc.

At MANN there is no premium on Quality, infact, it offers the **best possible pricing on high volume manufacturing**. MANN's commitment towards **Quality and Deliveries** minimises hassles of component inventory and production hold-ups and improves quality and profits, as it is implementing systems like **JIT, TQM, FMEA, PPAP, 8D 4W2H** etc. Our quality management system is geared for excellence in **QCDA (Quality, Cost, Delivery, quick Action)**.

## OUR VALUABLE CUSTOMERS

MANN is proud to be associated with leaders like

- Schneider Electric India (P) Ltd.
- Luminous Power Technologies (P) Limited
- Secure Meters Ltd
- Havells India Ltd.
- BEETEL (Brightstar) Tele. India Ltd.
- Microtek International Limited
- Exide Industries Ltd.
- Su-kam Power System Ltd.
- Amara Raja Electronics Ltd.
- HPL Electric & Power Pvt. Ltd.
- Genus Power Infrastructures Ltd.
- V-Guard Industries Ltd.
- True Power International Ltd.
- Arise India Ltd.
- Flextronics Technologies Pvt. Ltd.
- Samsung India Pvt. Ltd.
- I.T.I. Ltd.
- TEI Technologies Pvt. Ltd. (Tyco Group)
- Livguard
- Larsen & Toubro Limited
- Landis+Gyr Ltd.
- Pricol Ltd.
- Minda Corporation Ltd.
- Flash Electronics India Pvt. Ltd.
- Kaynes India (P) Ltd.
- Deltron (A Div. of Continental Device Ltd.)
- SGS Techniks Manufacturing (P) Ltd.
- Digital Circuits Pvt. Ltd.
- Crompton Greaves Ltd.
- UTL Power System
- Priyaraja Electronics Ltd.
- Siemens Ltd.
- BCH Electric Ltd.
- BPL Telecom Ltd.
- Salzer Electronics Ltd.
- BSNL & MTNL
- Defence

We have **95% - 100%** vendor rating with these companies.

## INFRASTRUCTURE AND TEAM

MANN team consists of professionally qualified managerial and technical staff and quality conscious skilled work force. MANN is fully self contained establishment with infrastructure and provision of customer backup at all stages from concept to design, testing and manufacturing. MANN has its inhouse STATISTICAL QUALITY SYSTEM, QUALITY ASSURANCE / TESTING SHOP, DESIGN AND DEVELOPMENT SECTION, MODERN TOOL ROOM / MACHINE SHOP, PRESS SHOP, MOULDING SHOP, ASSEMBLY LINES, ELECTROPLATING SHOP ETC.

## QUALITY POLICY

To provide value product which satisfy customer in Quality, Reliability, Performance and Durability.

To strive continuously to improve quality through Kaizen, employee safety & motivation, continual improvement through QMS, carrying out innovation, leveraging technologies and competencies.

We are committed to produce and supply on time products of best quality as per product standards which satisfy applicable requirements for customer delight.

## MAIN PRODUCTS

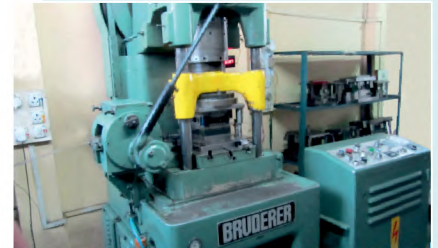
Our expertise and dedication as working partner has made MANN, leading designer and manufacturer of many import substitutes Hi-Tech components like conforming to JSS, BIS, DIN, IEC standards

- Tact Switch
- Micro Switch
- Hook Switch
- Terminal
- Cable Terminal
- Push Switch
- USB Connector
- Power Switch
- Reset Switch
- Rocker Switch
- Phono / IEC Socket
- DC Socket
- Fuse Holder
- Fuse Clip
- RCA Jack
- Audio Connector
- CAT Connector
- Modular Jack
- Moulded Comp. (custom Built)
- Relays
- Rotary Switch
- D Sub Connector
- Power Socket
- Wire Assembly
- Slide Switch
- Ringer / Buzzer
- SMD Buzzer
- Brass Connector
- Sheet Metal Components (custom Built)
- Nema Connector
- Switching / MCB Component
- Loops
- Shunt
- Solar PV Connector
- Crimped Connector

and other custom made intricate sheet metal, moulded and draw components.



FULLY EQUIPPED TOOL ROOM WITH E.D.M., LATHE, GRINDER ETC.



BRUDERER (SWITZERLAND) HIGH SPEED PRESSES WITH RAPID AIR (USA) DECOILER & STRAIGHTNER



MINSTER PRESSES (USA) WITH LITTELL & COOPER WEYMOUTH (USA) MECHANICAL FEEDER



CLOSED LOOP CNC CONTROLLED MOULDING MACHINES



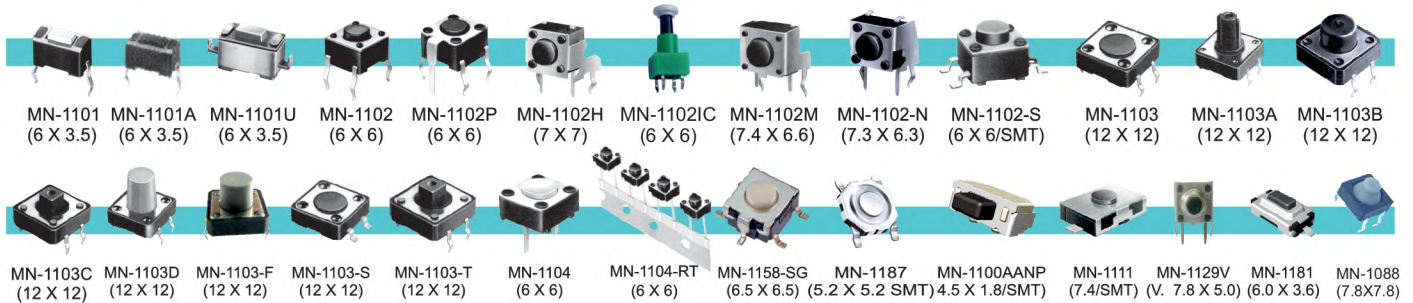
ASSEMBLY LINE AS PER INTERNATIONAL & APPROVED STRINGENT PRODUCT / PROCESS STANDARDS



FINISHING SHOP WITH ALL PLATING FACILITY LIKE ULTRASONIC AND ELECTROLYTIC CLEANING, LABORATORY, THICKNESS TESTER, SALT SPRAY CHAMBER, CORROSION TESTING ETC

## TACT SWITCH

Rating - 50 mA, 12 VDC, Travel - 0.25 ± 0.1 mm, Operating life-50k-100k cycle, Contact resistance-100m Ohms max  
 Operating Force - 100 ± 50 gmf, 130 ± 30 gmf, 160 ± 30 gmf, 260 ± 50 gmf

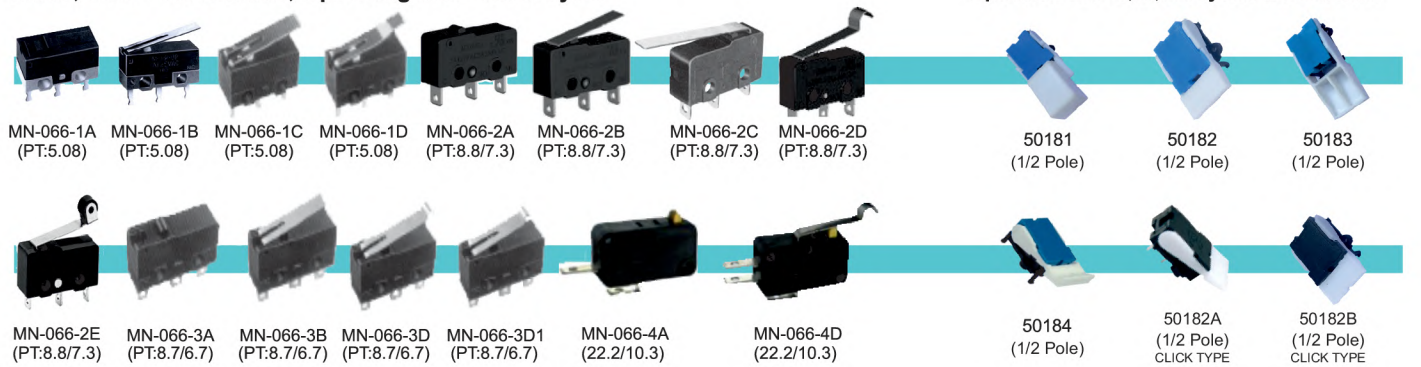


## MICRO SWITCH

Rating - 125 AC / 1A, 250 AC / 3A, Contact - SPDT, C.R. < 100 M Ohms, V.R. > 100M Ohms, Operating life > 100 K cycle

## HOOK SWITCH

Rating - 200 mA, 48 VDC, CR - 30 m Ohms max.  
 Operating Force - 71 gmf max for 2 pole.  
 Operation Life - 3,00,000 cycles without load.



## TERMINAL (MALE)

## BARREL



## TERMINAL (FEMALE)



## CABLE TERMINAL

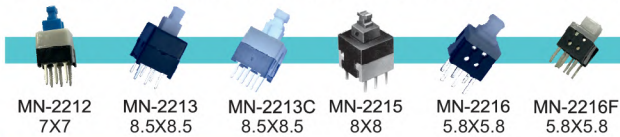
COPPER / ALUMINUM



## PUSH SWITCH

Rating - 100 mA, 30 V DC  
Timing - Shorting or non shorting  
C.R. < 70 Ohms, V.R. > 500 V AC

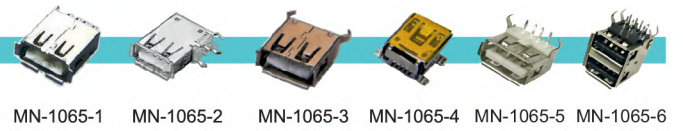
Contact - 2P2T  
Operating Force - 200 ± 80 gf  
Operating life - 10 K - 30 K Cycle



## USB CONNECTOR

Rating - 250 V AC, 1.5 A  
Contact Resistance - 30 m Ohms max

IR > 1000 M Ohms, 500 VDC  
VR > 750 VAC, Reliability-1500 cycle



## POWER SWITCH

Rating - 5A / 10A, 250 V AC, C.R. < 30 Ohms, V.R. > 100 V AC  
Operating Life > 10K Cycle



## RESET SWITCH

Rating - 3A-25A, 125/250V AC,  
32 VDC, 50/60 Hz



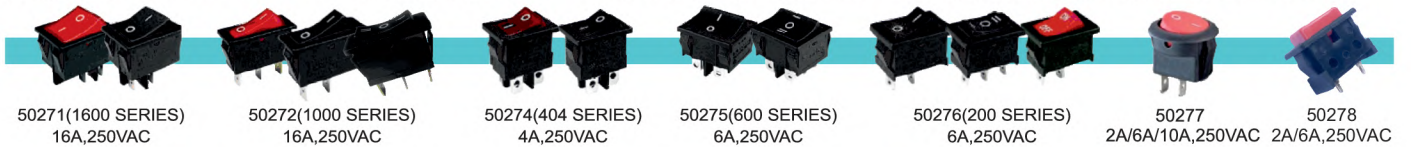
## ROCKER SWITCH

Contact Resistance: < 10m ohm  
Insulation Resistance: > 20M ohm

Dielectric strength: > 3KV  
Inrush Current: 75A

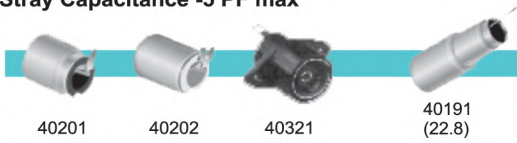
Circuit Isolation: >3mm  
Electric life operation: >10K

Mechanical life operation: >30K  
Operating Temperature Range: -10°C to +85°C



## PHONO/IEC SOCKET

CR < 10 m Ohms initial  
IR > 1000 M Ohms at 500 V DC  
Stray Capacitance -5 PF max



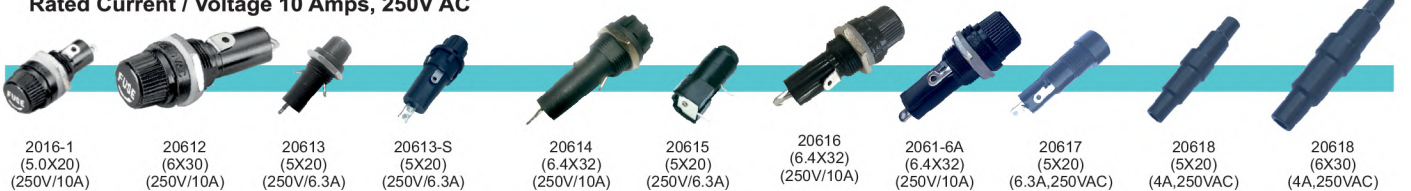
## DC SOCKET

CR < 10 m Ohms initial  
IR > 1000 M Ohms at 500 V DC  
Stray Capacitance -5 PF max



## FUSE HOLDER

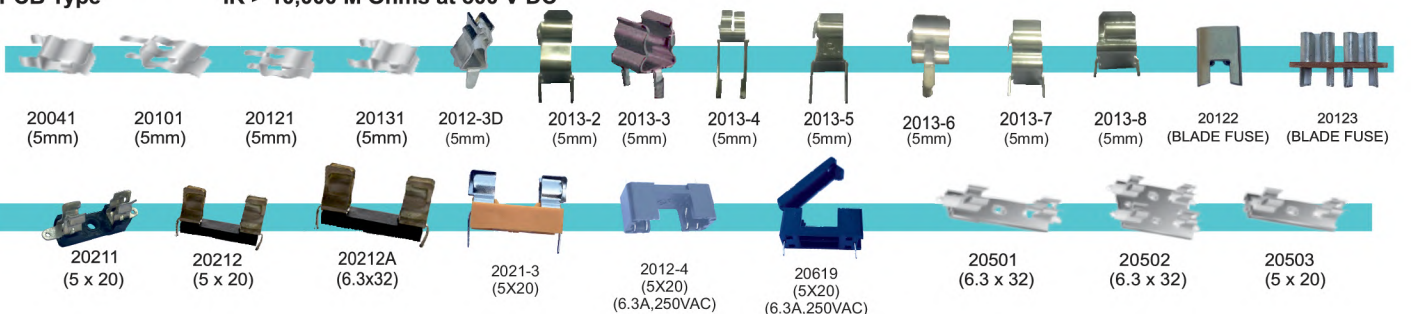
Mounting Style - Panel  
Rated Current / Voltage 10 Amps, 250V AC



## FUSE CLIP

CR < 10 m Ohms  
PCB Type

CR < 5 m Ohms  
IR > 10,000 M Ohms at 500 V DC



## RCA JACK

Rating- 125 VAC/1.2Amp, VR > 1000 V AC for 1min.  
CR < 20m Ohms, Mating force < 3000g  
IR > 1000M Ohms AT 500VDC



40341 (2PIN)      40342 (3PIN)      40343 (4PIN)

## AUDIO CONNECTOR

Rating - 500V / 15A  
Contact Resistance - 5mOhms (max)



10531M (15.60mm)      10531F (15.60mm)

## CAT CONNECTOR

Insertion Force : 20N Max  
Retention Strength 7.7 kg  
Operating Temp : -10 to 60 C  
Life : 750 Cycle min



4039-5 RJ-45 8P 8C      RJ-45 (CAT 5)      RJ-45 (CAT 6)

## MODULAR JACK

Rating - 125 V AC / 1.5 Amp  
CR < 30m Ohms

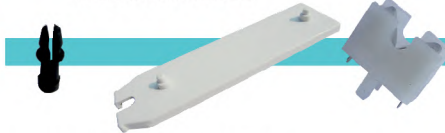
VR 1000 V AC for 1 min  
Mating force - 0.3 - 1.0 kg



4039-1 KS-616W    4039-2 KS-623K    4039-3 KS-616E    4039-4 RJ-11 4P 4C    4039-4 RJ-11 6P 4C    4039-51 RJ-11 6P 6C    4039-5 623A    4039-6M1 616M1    4039-6MWC 616MWC    4039-6M 616M

## MOULDED COMP. / CONNECTOR

### CUSTOM BUILD



MN-1058-1 SNAP PIN    MN-1058-2 BAKELITE SUPPORT    MN1052-40

## RELAYS



MN 6044-T-73A (19x15.5x15.5) (4A,250VAC)    MN 6044-T-73 (19x15.5x15.5) (7A,250VAC)    MN 6044-T-90 (32.4x27.5x20.5) (30/40A,240VAC)    MN 6044-T-91 (32.4x27.5x28.0) (20/30A,240VAC)

## ROTARY SWITCH



MN 5047-1 (Rating 150 mA) (250V AC)

## D SUB CONNECTOR

Rating: 250VAC / 3Amps  
CR < 15 m Ohms  
IR > 3000 M Ohms at 500VDC

Mating force : 0.3-3Kg  
VR > 1000 VAC for 1 min



10571-F    10571-M    10572-F    10572-M    10573-F    10573-M    10574-9H    10574-15H    10574-25H

## POWER SOCKET

IR > 1000 M Ohms min at 500 VDC  
CR < 10 m Ohms, Temperature 0 to 70 deg. C



4063-2F (10A / 250V) panel, snap-in type    4063-3F (6A / 250V) panel, snap-in type    4063-4F (UNIVERSAL) (6-10A / 250V) panel, snap-in type    4063-1F FEMALE SOLDER TYPE

## WIRE ASSEMBLY

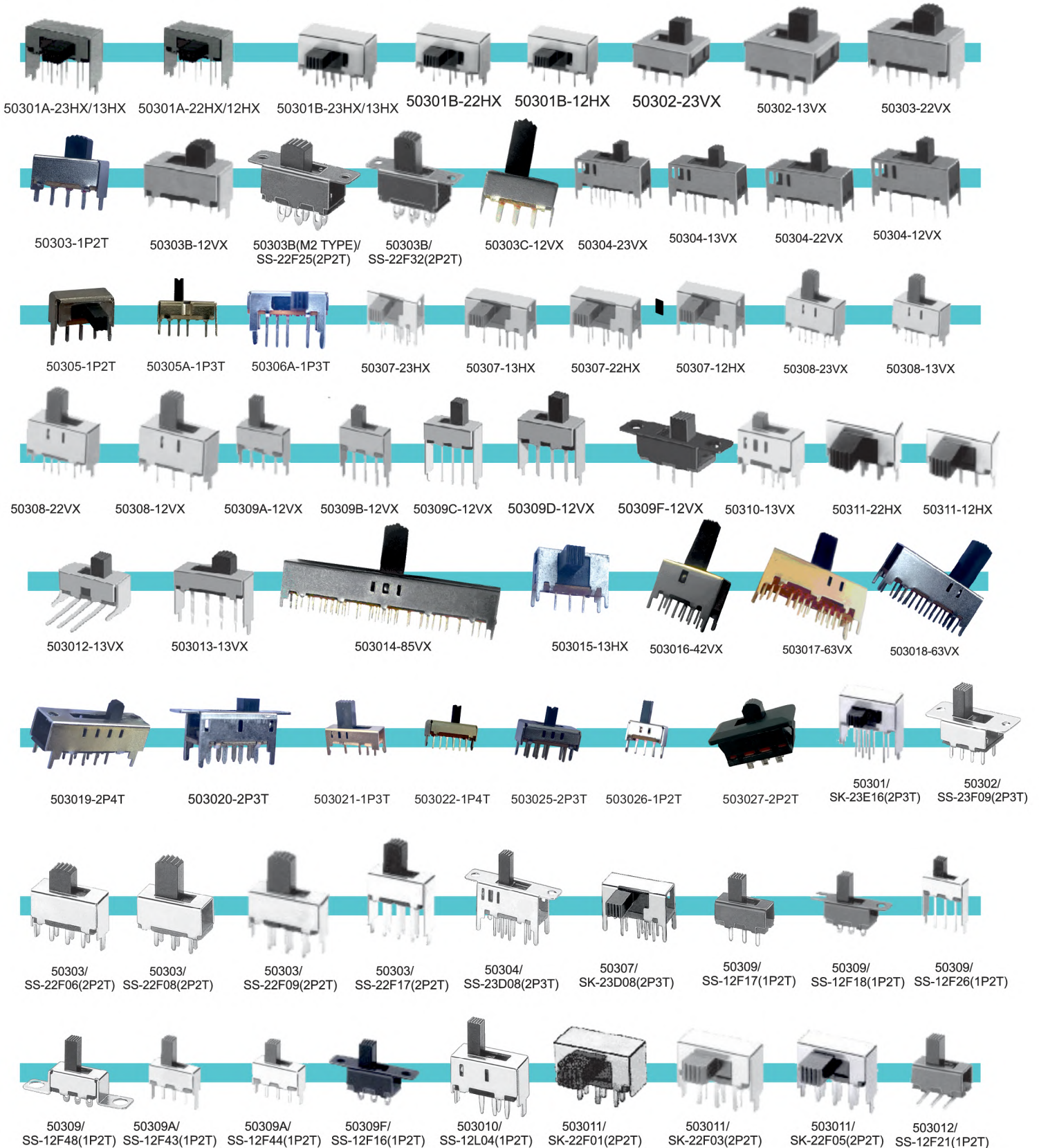


4063-1M MALE SOLDER TYPE    3041-1 3-3 RCA    3041-2 2-2RCA    3041-5 3.5 mm stereo plug to 2 RCA

**SLIDE SWITCH**

Switch Rating - 500 mA, 50 VDC  
Insulation Resistance - 500 M Ohms min.

Contact Resistance - 30 m Ohms max.  
Mechanical Operation - 10,000 cycles



**RINGER / BUZZER**

 70351A  
(31mm DISC)

 70351B  
(31mm DISC)

 70352  
(27mm DISC)

 70353  
(27mm DISC)

 70354  
(B-20)

 70355  
(2-5VDC)

 70355-C1  
(2-5 VDC)

 70356  
(8-15VDC)

 70356-C1  
(8-15 VDC)

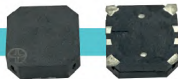
 7035-7A  
(1-3V AC)

 70357  
(27mm disc / FB)

 70358  
(20mm PCB Mounted)

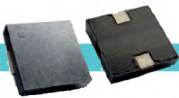
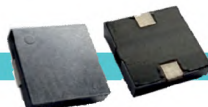
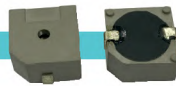
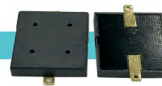
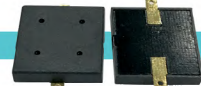
 70359  
(27mm disc / FB)  
Continuous Type

**SMD BUZZER**

 7035-10  
(5X5),  
2-4VAC/4 KHz

 7035-11  
(7.5X7.5),  
2.5-4.5VAC/2.7 KHz

 7035-12  
(8.5X8.5),  
2-5VAC/2.7 KHz

 7035-13  
(9X9),  
2-5VAC/2.7 KHz

 7035-14  
(10.5X10.5),  
2.5-4.5 Vo-p/2.7KHz

 7035-15  
(10X10),  
1-25 Vp-p/5.2 KHz

 7035-16  
(12X12), 1-25  
Vp-p/16 KHz

 7035-17  
(12.8X12.8),  
4-7V/2.4 KHz

 7035-18  
(13X13),  
1-25 Vp-p/4 KHz

 7035-19  
(16X16),  
1-25 Vp-p/4 KHz

**BRASS CONNECTOR 14 MM**
**BRASS CONNECTOR 16 MM**
**BRASS CONNECTOR 19MM**
**No. of Pins Available - 2-8 Pins**
**Rating: 3A / 250V**
**CR < 10m Ohms**
**IR > 1000 M Ohms at 500VDC**
**Mating force : 0.3-3Kg**
**VR > 1000 VAC for 1 min**

 1043-14M  
3 Pin

 1043-14F  
3 Pin

 1043-2 16F  
2 Pin

 1043-16M  
2 Pin

 1043-16F  
4 Pin

 1043-16M  
4 Pin

 1043-16M  
8 Pin

 1043-16F  
8 Pin

 1043-19M  
8 Pin

 1043-19F  
8 Pin

**SHEET METAL COMPONENTS (CUSTOM BUILT)**
**FOR ELECTRONIC METER, UPS, INVERTOR, AUTOMOBILE ETC.**

 1052-1  
TERMINAL CLAMP

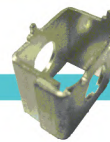
 1052-6  
CAGE CLAMP

 1052-7  
CAGE CLAMP

 1052-29  
100 ROLLED  
TERMINAL

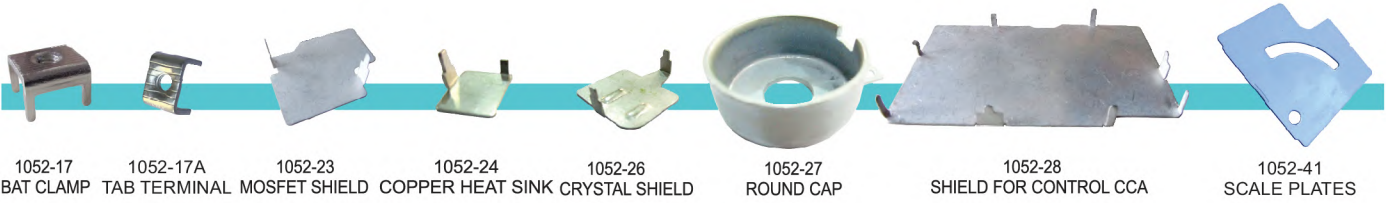
 1052-2  
CLAMP YOKE

 1052-3  
MOS FET  
SHIELD

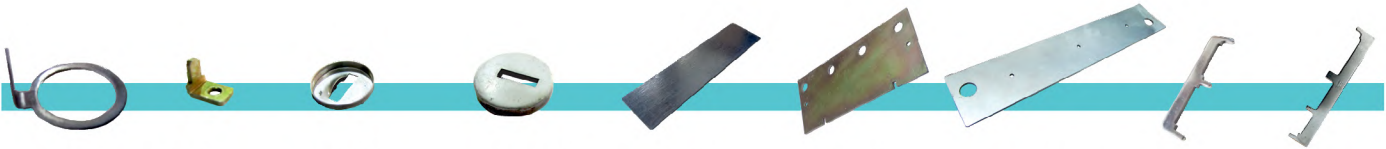
 1052-3A  
MOS FET  
SHIELD

 1052-10  
EDD SHIELD

 1052-11  
OPTICAL WASHER

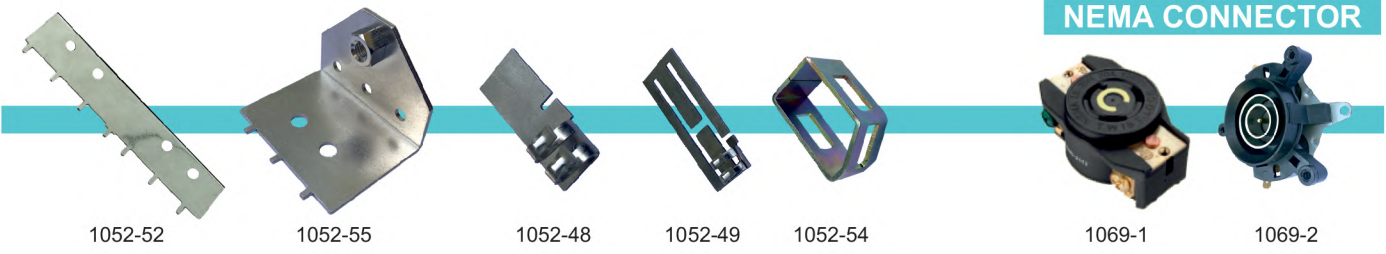
 1052-11A  
OPTICAL WASHER



1052-17 BAT CLAMP    1052-17A TAB TERMINAL    1052-23 MOSFET SHIELD    1052-24 COPPER HEAT SINK    1052-26 CRYSTAL SHIELD    1052-27 ROUND CAP    1052-28 SHIELD FOR CONTROL CCA    1052-41 SCALE PLATES

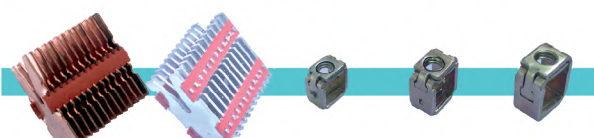


1052-30 O-RING    1053-31 T-BLOCK MOUNTING    1052-33A SWITCH CAP FOR AUTO SWITCH    1052-33B SWITCH CAP FOR AUTO SWITCH    1052-25 ESD SHIELD    1052-32 BASE SHIELD    1052-32A BASE SHIELD    1052-16 BRASS JUMPER (E-TYPE)    1052-16A BRASS JUMPER (E-TYPE)



1052-52    1052-55    1052-48    1052-49    1052-54    1069-1    1069-2

## SWITCHING / MCB COMPONENT



1068-1 (0.5A - 32A)    1068-2 (0.5A - 32A)    1052-46A    1052-46B    1052-46C

## LOOPS



1052-47    1052-50B    1052-51    1054-34A COPPER LOOP

## SHUNT



1066    1066-A    1066-B    1066-C    1066-D

**CRIMPED CONNECTOR**

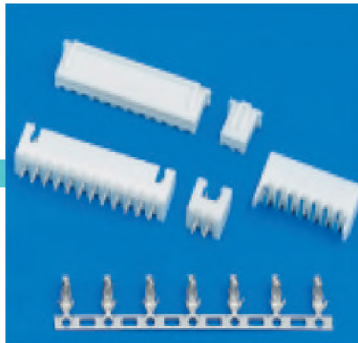
CURRENT RATING : 0.5A/1A/3A AC/DC  
 VOLTAGE RATING : 30V/150/200/300 VAC/DC  
 CONTACT RESISTANCE : 20m ohms max.  
 INSULATION RESISTANCE : 100 M ohms min.  
 WITHSTANDING VOLTAGE : 1000 VAC/MINUTE

**MATERIAL**

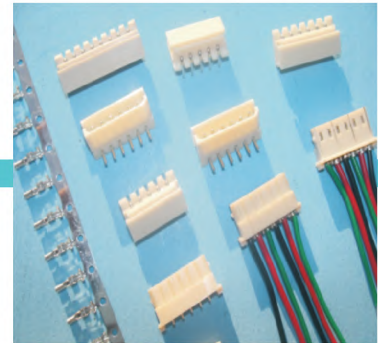
BODY/WAFER : Nylone 66 UL 94V-2 (0)  
 PIN : Brass / Tin plated  
 TERMINAL : Brass / Phosphor Bronze Tin Plated  
 NUMBER OF PINS : 2-20  
 TYPE CONNECTOR : Straight/ Rt. Angle.  
 TEMPRETURE : -25°C to + 85°C



MN 1250  
1.25mm Pitch Side Lock



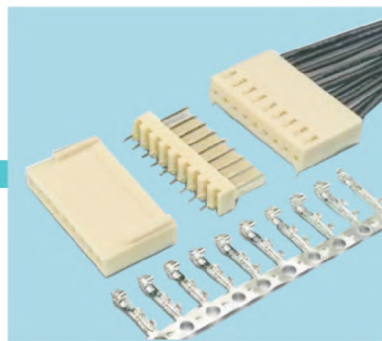
MN 2501  
2.5 mm Pitch (JST Type)



MN 2506  
2.50mm Pitch Side Lock



MN 2508  
2.5mm Pitch Front Vertical Lock



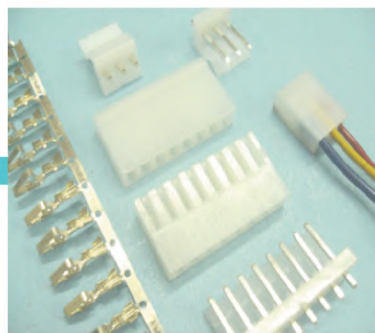
MN 2542  
2.54mm Pitch (Relimate Type)



MN 2549  
2.54mm Pitch (JST Type)



MN 3961  
3.96mm Pitch (Relimate Type)



MN 3962  
3.96mm Pitch (CPU Type)



MN 5081  
5.08mm Pitch (CPU Type)

**DC FAN**


**MN-9071-1, 8025S12H**  
 FAN DC, 80×80×25, 12V DC, 0.18 A,  
 2 PIN WITH CONNECTOR (300MM),  
 RPM:2900, 33.7 DB, 44.3 CFM



**MN-9071-1, 8025S24H**  
 FAN DC, 80×80×25, 0.18 A,  
 12V, 2 PIN WITH CONNECTOR (330 MM),  
 RPM 3000, 33 db, 37.2 CFM.



**MN-9071-2, 9025S24H**  
 DC FAN 90×90×25, 0.15A, 24V,  
 2 PIN WITH CONNECTOR (205),  
 RPM 2800, 33.2 db, CFM53.1



**MN-9071-3**  
 12V-24V-High-Power  
 Mining machine brushless



**MN-9071-4**  
 110V-220V-380V  
 Ac-Motor-Radiator-Axial



**MN-9071-5**  
 110V-220V-380V  
 Aluminium Frame and Plastic



**MN-9071-6**  
 Refrigerator Fan-120x120x38-mm



**MN-9071-7**  
 IP65 Water Proof Fan



**MN-9071-8**  
 Cooling Fan 120mm-220V



**MN-9071-9**  
 High End Top Quality



**MN-9071-10**  
 AC Axial Fans-120x120x38



**MN-9071-11**  
 Coffee Machine Fan

# Photovoltaic System

(1) Solar Cell

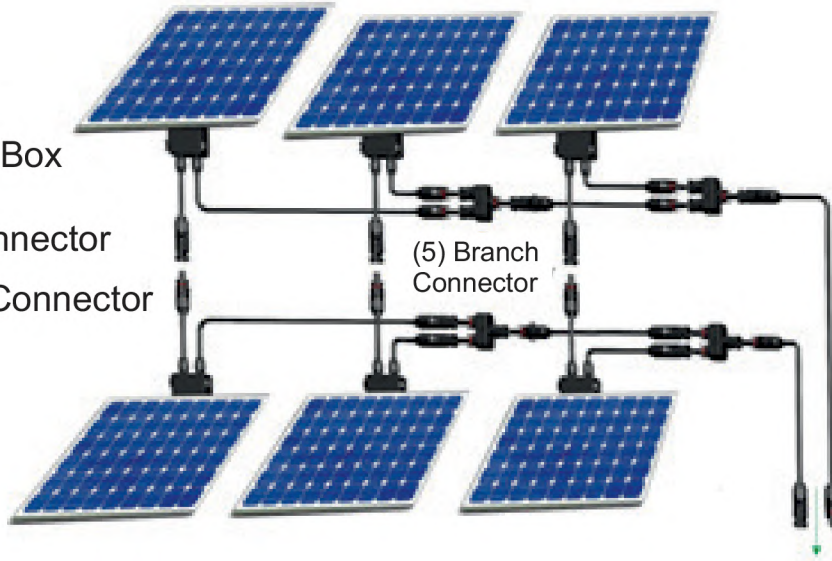
(2) Junction Box

(3) Male Connector

(4) Female Connector

(5) Branch Connector

(6) Cable Assembly



## MC4 MALE/FEMALE CONNECTOR :

HOUSING : PPO/PC,

CONTACT : COPPER, TIN/SILVER PLATED,

CONTACT RESISTANCE : 0.5m,

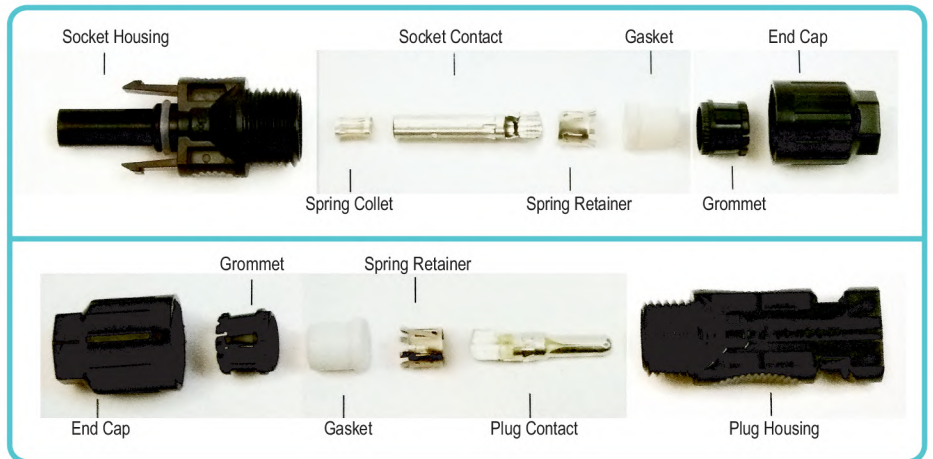
Degree of protection : IP67

Flame Class : UM94-VO,

Pin Dimension : 4 mm,

**TUV APPROVED AS PER**

**IEC62852:2014 STANDARD**



## CONNECTORS



**1070-1**

30A, 1500VDC, IP68, 2.5/4/6 sq.mm., TUV



**1070-2**

30A, 1500VDC, IP68, 2.5/4/6 sq. mm., TUV, Safety Window



**1070-3**

30A, 1500VDC, IP68, 2.5/4/6 sq. mm., TUV, Panel Mount



**1070-4-S2P1/1070-4 (S1P2)**

30A, 1500VDC, IP68, TUV

**CONNECTORS**


**1070-5-S3P1 / 1070-5-S1P3**  
30A, 1500VDC, IP67,  
3-way Branch Connector



**1070-6**  
30A, 1500VDC, IP67,  
3-way Branch Connector



**1070-7**  
30A, 1500VDC, IP67,  
Overmold Y-type Branch Connector



**1070-8**  
30A, 1500VDC, IP67,  
Overmold Y-type Branch Connector

**MODULE JUNCTION BOX**


**1070-9**  
4-rail, with diodes, 12A potted/  
10A non-potted, IP67, TUV



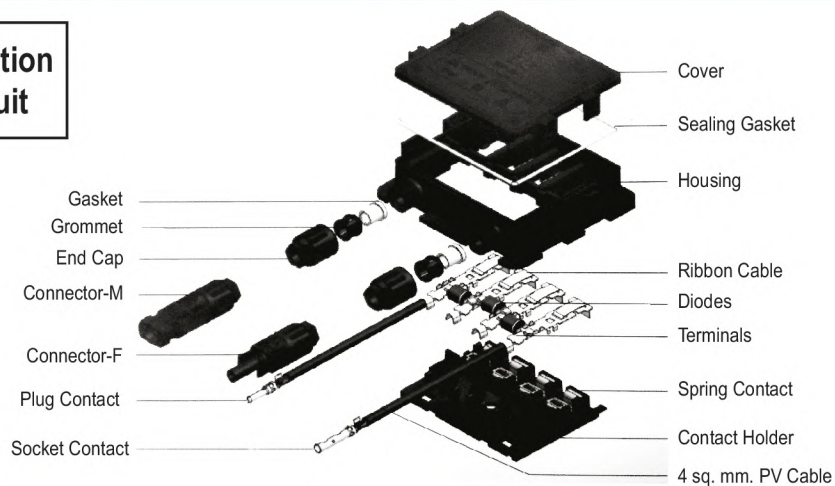
**1070-10**  
3-rail, 10A, IP65



**1070-11**  
2-rail, 3A, IP65



**1070-12**  
3-rail 7A, IP65

**4-Rail Module Junction  
Box Internal Circuit**

**ACCESSORIES**


**1070A-1**  
Hand Crimping Tool

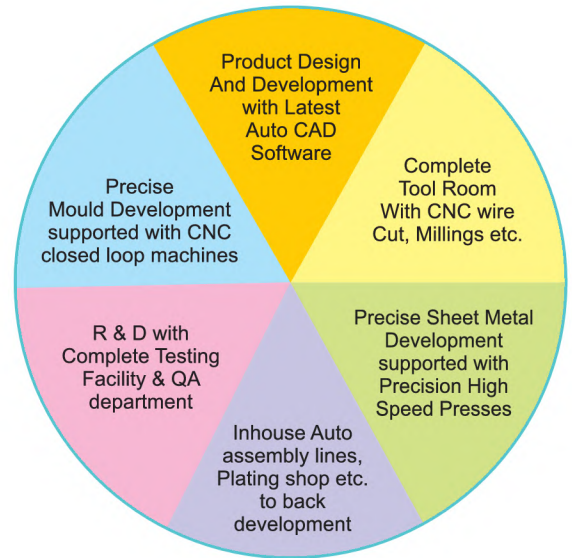
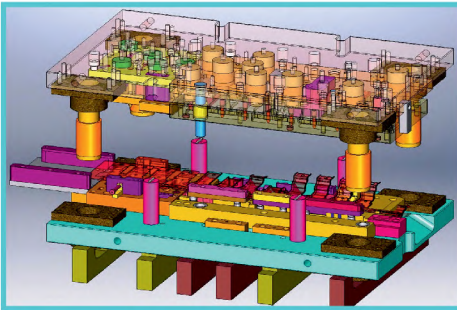


**1071A-2**  
Hand Crimping Tool

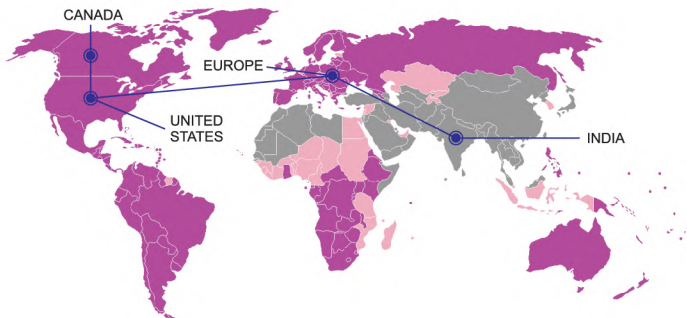


**1071A-3**  
Disconnect Tool

## SOLUTION : From Design to Product



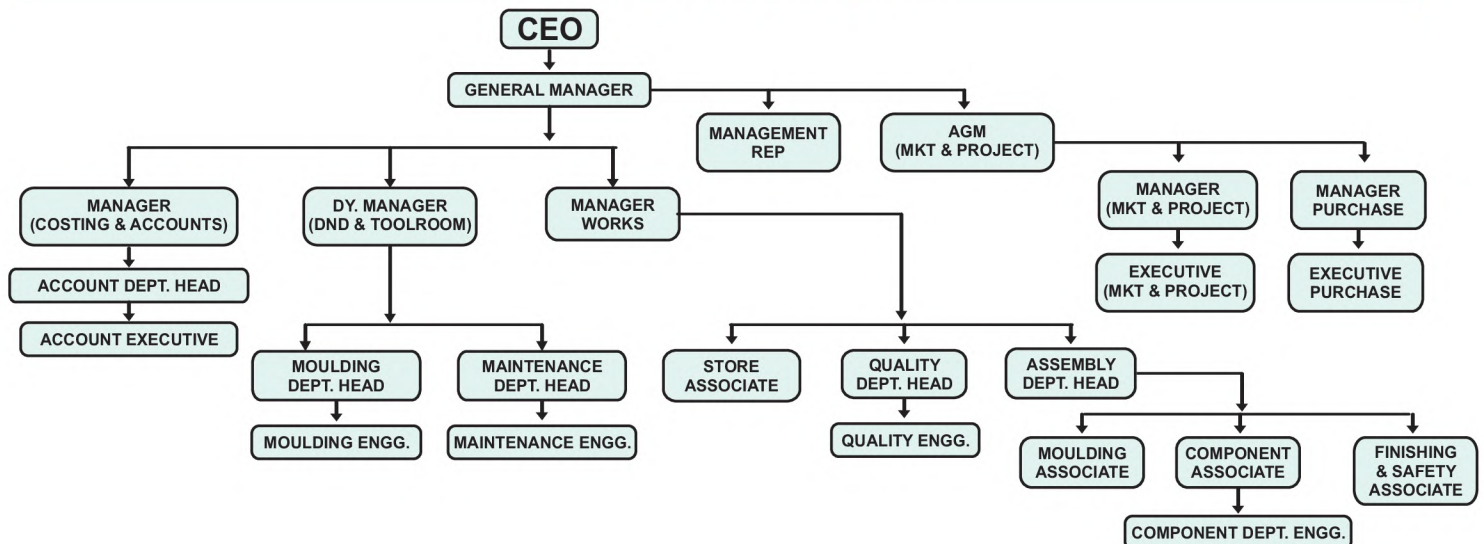
## Close to Our Customers - Worldwide!



## SOLUTION FOR CUSTOM BUILT PRODUCTS, SHEET METAL AND MOULDED COMPONENTS

MANN has professional and technical R & D and design team with wide experience in product research & precision development. Equipped with advance software, complete testing facility, precision CNC machines, high -speed precision stamping machines, plating shop and automated assembly equipments, MANN can meet different requirements of customers in not only products but also in components and parts.

## ORGANISATION STRUCTURE





# PRODUCT RANGE



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