

# Amphenol® LTW®

Amphenol LTW



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Amphenol® LTW®

Waterproof Connector Solutions

# Amphenol® LTW® Innovation in Waterproof Solution



## Complete Range of Waterproof Connectors & Cable Assembly

[www.amphenolltw.com](http://www.amphenolltw.com)

## About Amphenol LTW

Founded in 1993 in Taiwan by Peter Chen, LTW Technology is a professional innovator and manufacturer focusing on outdoor waterproof connectors and solutions.

LTW Technology was acquired by Amphenol Group in April of 2010 and now the official name changed from "LTW Technology" to "Amphenol LTW Technology Co., Ltd.". Amphenol LTW is still lead by current management team, under the leadership of Peter Chen and will dedicate to the same principle that LTW has driven relationship with its customers in the past: Quality, Service, Enthusiasm, Professionalism and Innovation.

Amphenol LTW has actively devoted to various outdoor and industrial applications by successfully developing high-end waterproof connectors. We acquired many worldwide patents and certification such as ISO14001, ISO9001, and NMEA 2000...etc. Amphenol LTW is well positioned to enhance products quality and customer service.

Headquartered in Shinjuang city, Taipei County-Taiwan, Amphenol LTW group has approximately 620 employees with R&D center in Hualien, East of Taiwan, Automated CNC, tool and mold factories in Shulin, Taipei County, and a complete production line operating in Kunshan, Jiangshu Province, China.

## Our Vision

Being a world class waterproof connector company.

## Our Mission

Create profitable growth to shareholder values.



Taiwan Excellence Award.



Taiwan Small & Medium Enterprise Innovation Award.



Innovation Achievement Commendation Award.

## History



## Core Technology in Waterproof

Profit through innovation, differentiation and new markets

### Service

Global Operation  
Customer Satisfaction  
Total Solution

### Innovation

Innovation via Technology  
Investment in R&D  
Investment in Technology

### Quality

Testing Verification  
Quality Assurance  
World class Lab

## Social Responsibility (Global Citizenship)

Regular sponsorship and donations to local disadvantaged minorities and provide assistances to students in remote rural districts.

### Special Aids

- Donating money to remote districts in the eastern of Taiwan
- Donating to Taiwan's private charity institution which voluntarily build bridges and pave roads in countryside.
- Contributing vertical injection machines to colleges and universities for students' practice.
- Donating ambulances to remote rural districts in Taiwan.
- Donating money to G.S.W.F.; a Taiwanese foundation that helps people with PVS.



Head Office (Taipei)

R&D Center in Hualien

CNC Factory

18th National Award of Outstanding Small & Medium Enterprises



ISO 14001 China

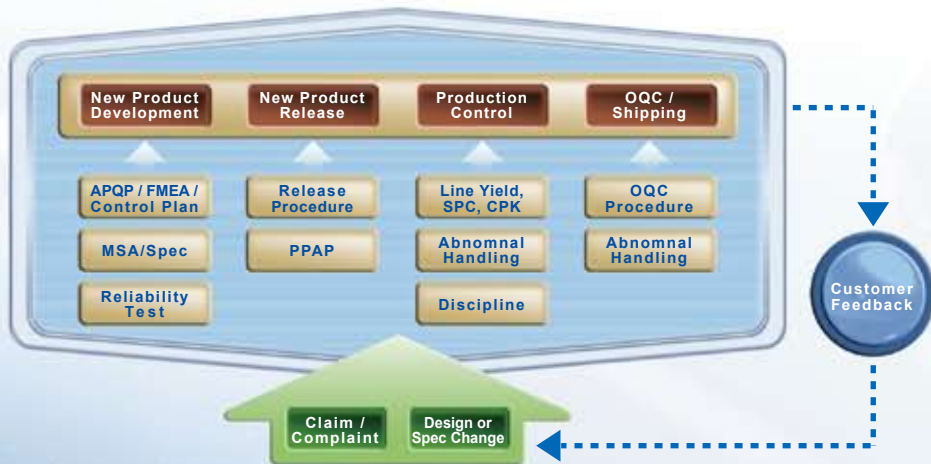


LTW Connectors certified by NMEA 2000

## Quality System



## Amphenol LTW QRA PDCA Review Loops

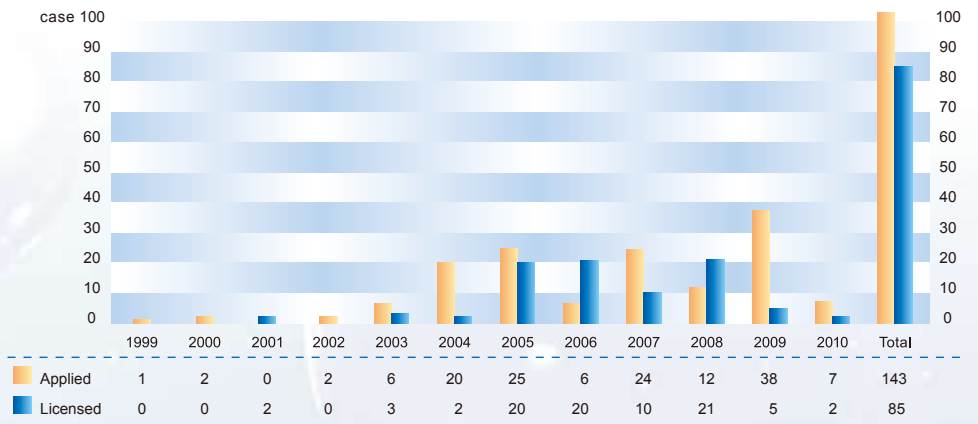


## RD & IP

### R&D Resource Integration



## Amphenol LTW Patents



Numbers of Patent Applications & Licences

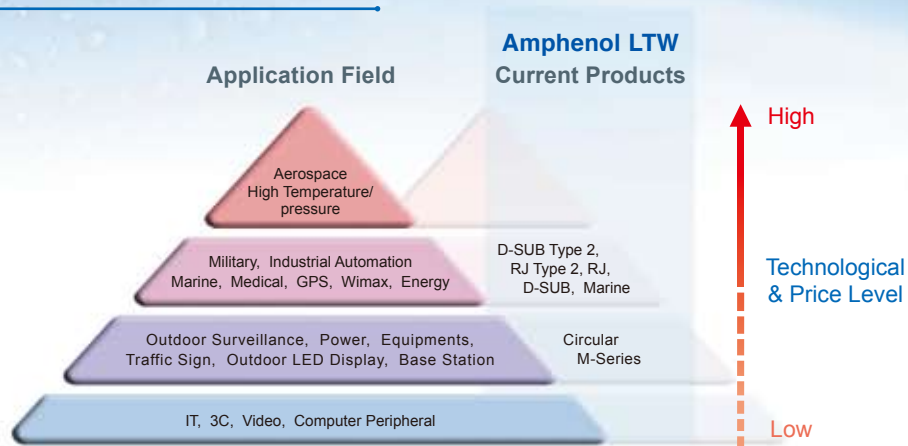
## Lab. Equipments



LTW lab equipment also includes:

- IPX7 / IPX8 Waterproof Tester
- Ultraviolet Tester
- Flame Tester
- Temperature / Humidity Chamber
- Salt Water Spray Tester
- Bending Tester
- Drop Tester
- Vibration Simulator System
- ...and many more.

## Product Positioning



## Products

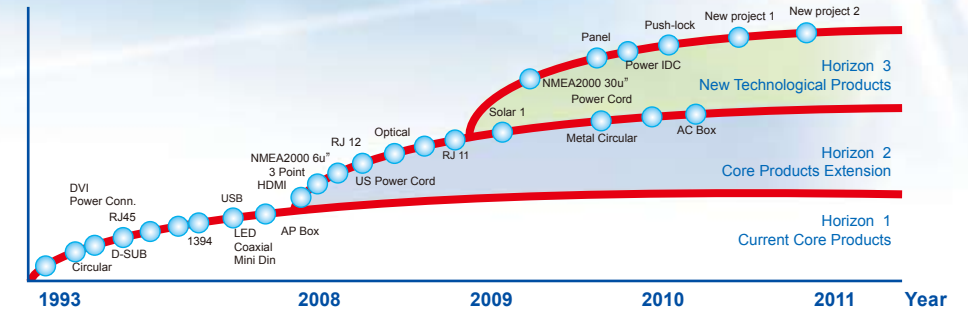
Amphenol LTW designs and manufactures waterproof connectors which are high/low temperature resistant, UV resistant, and sands and corrosion proof and cable assemblies for various purposes and applications. All products meet IP66, IP67, IP68 or IP69K. The waterproof range includes Circular, RJ45, D-sub, Sensor, USB, DVI/HDMI, Power Connector, Hybrid Connector, etc.



### Over 5,000 items

All products are designed and built to meet high standard requirements such as: Temperature resistant, Fire-proof, Dirt-proof, EMI-proof, Vibration-proof, Shock-proof, UV-resistant, Oil-resistant, Chemical resistant, Environmental-friendly, Durable, Long Life cycle, and Easy of Use. All products are designed to provide customers value-added solutions whilst enabling to be competitive and shorten time to market cycle.

## 3 Growth Horizon Strategy



## Applications

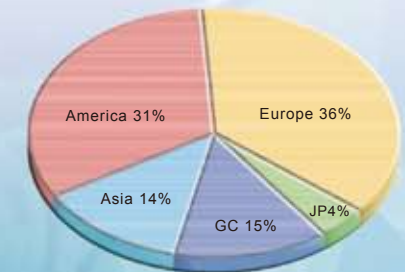
Amphenol LTW is more than a supplier of connector but a solution provider to your challenges and problems. Amphenol LTW connector solutions targeting the following market applications:

- Aerospace, Medical
- Military, Marine
- Diving Device
- Sonar Radar
- Industrial Automation
- Outdoor Surveillance
- Automobile
- Audio / Video
- GPS
- LED Screen & Lighting
- Renewable Energy
- WiMax / Wireless Communication

Amphenol LTW is dedicated to satisfy worldwide customers by innovative design and qualified manufacture for different market segments

## Sales by Products & Regions

Amphenol LTW Sales Revenue by Business Segments



# Outdoor LED Solution

ENCLOSURE



Enclosure (AP Box, LTWAP-ODU-M03002)  
& Cable Gland (LTWCSG-12M001)

5120 Pixels Data (Shielded Cat5)

AC Power Input

Power & Data to String

Continues

12 Watts per String

AC Power & Enclosure

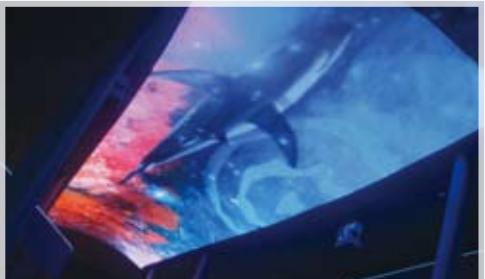
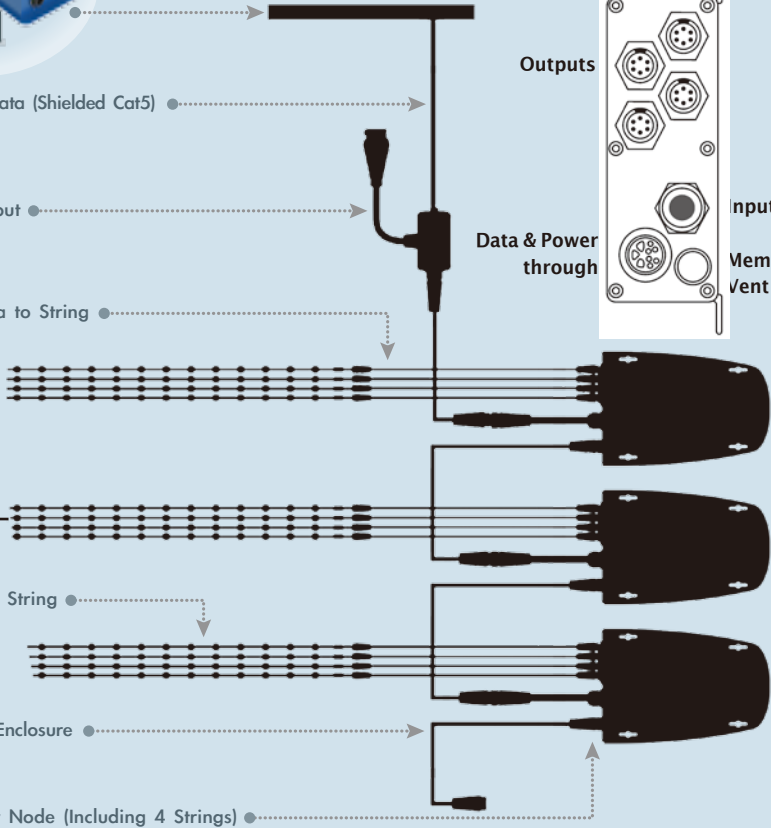
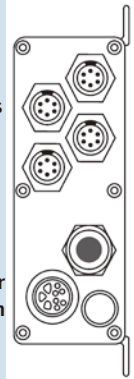
50 Watts per Node (Including 4 Strings)

Outputs

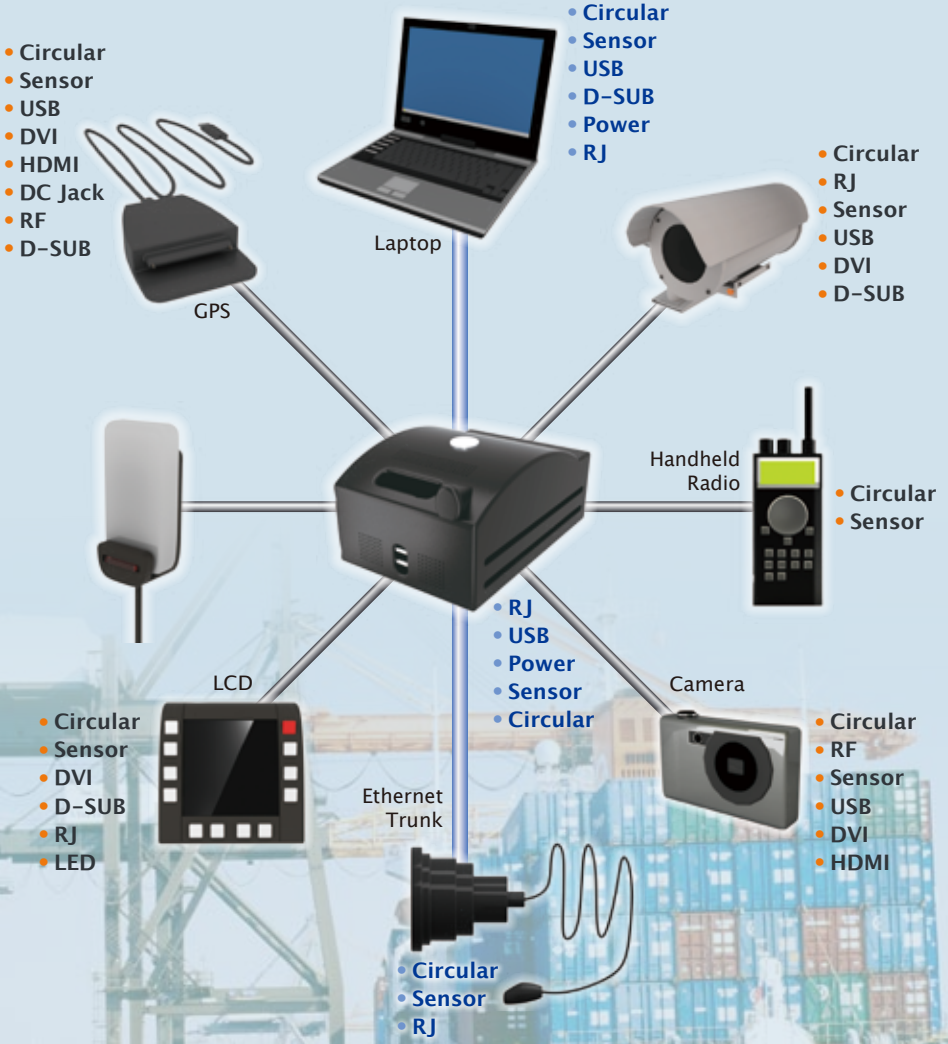
Data & Power through

Input tail

Membrane Vent



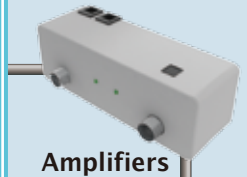
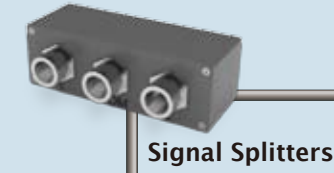
# Tracking System for Industrial Solution



# Marine Electronics Solution



# Outdoor Wireless Broadband Solution



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**XXX - XX X X X X - X X X XXX**

### Number of Contacts

- A2, A3, .....Pin Receptacle
- B1, B2, .....Pin

### Style

- A – For Cable with S/R
- B – For Cable without S/R
- X – For Box
- P – For Panel Front Mounting

### Connector Style

- M – Male Connector
- F – Female Connector

### Contact Type

- M – Male
- F – Female
- C – Combo

### Back Shell

- L – Straight (180° For Cable Type)
- R-Right Angle (90° For Cable Type)
- A – 2 Hole
- B – 4 Hole
- C – 6 Hole
- D – 0 Hole

### Mating Style

- L – Lock
- S – Screw
- Q – Quick

### Assembly Style

- M – Molding Type
- A – Assembly Type

### Specification

- PAR1 – 2-Wire Straight Plug IRAM 2063 10A 250V
- PAR2 – 3-Wire Straight Plug IRAM 2073 10A 250V
- PAU1 – 2-Wire Insulated Straight Plug AS/NZS 3112: 2000 10A 250V
- PAU2 – 3-Wire Insulated Straight Plug AS/NZS 3112: 2000 10A 250V
- PAU3 – 3-Wire Insulated Straight Plug AS/NZS 3112: 2000 15A 250V
- PAU4 – 3-Wire Insulated Straight Plug AS/NZS 3112: 2000 20A 250V
- PBR1 – 2-Wire  $\frac{1}{4}$  4.0mm Straight Plug NBR 6147 10A 250V
- PBR2 – 2-Wire  $\frac{1}{4}$  4.8mm Straight Plug NBR 6147 16A 250V
- PBR3 – 2-Wire  $\frac{1}{4}$  4.8mm Straight Plug NBR 6147 15A 250V
- PBR4 – 2-Wire  $\frac{1}{4}$  4.8mm Straight Plug NBR 6147 20A 250V
- PUS1 – 2-Wire NEMA 1-15P Straight Plug UL498 UL817 10A 125V
- PUS2 – 3-Wire NEMA 5-15P Straight Plug UL498 UL817 10A 125V
- PUS3 – 3-Wire NEMA 5-20P Straight Plug UL498 UL817 15A 125V
- PUS4 – 3-Wire NEMA 6-15P Straight Plug UL498 UL817 15A 250V
- PUS5 – 3-Wire NEMA 6-20P Straight Plug UL498 UL817 20A 250V
- PUS6 – 3-Wire NEMA 6-30P Straight Plug UL498 UL817 25A 250V
- PEU1 – 2-Wire Straight Plug EN 50075 2.5A 250V
- PEU2 – 2-Wire Straight Plug EN CEE7 (Std.Sht.XVII)16A 250V
- PEU3 – 2-Wire Straight Plug EN CEE7 (Std.Sht.VII)16A 250V
- PCH1 – 2-Wire Straight Plug GB2099.1 10A 250V
- PCH2 – 3-Wire Straight Plug GB2099.1 10A 250V

### Waterproof Rating

- 6 = IP 66
- 7 = IP 67
- 8 = IP 68

### Version

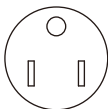
- Box Coloc 001, 002, .....
- 000 : Phantom
- For Cable A01 - 1M ~ A99 - 99M
  - A-SJTW
  - B-SJTOOW

## SPECIFICATIONS

No.	Specifications	Standard Value
01. Identifications		NEMA 5-15P
02. Description		Panel, Panel with Box, Power Cord
03. Current Rating / Pin Arrangements		125V/15A
04. Light Color		BLACK
05. Materials		Copper Alloy, Ni Plated Nylon + GF
06. Temperature Range		-20°C to +80°C
07. Operating Temperature		-20°C to +80°C
08. Waterproof Rating		IP67
09. Flame Test		HB
10. Thermal Shock		-20°C to +80°C
11. Breakdown Voltage		1250V / 1min <10ma (AC) 1250V / 1min <5.5ma (DC)
12. Corrosion		48 Hours Salt Spray Contact

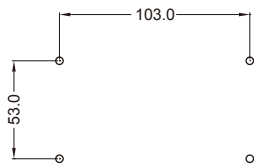
CONTACT PIN ARRANGEMENT

10A

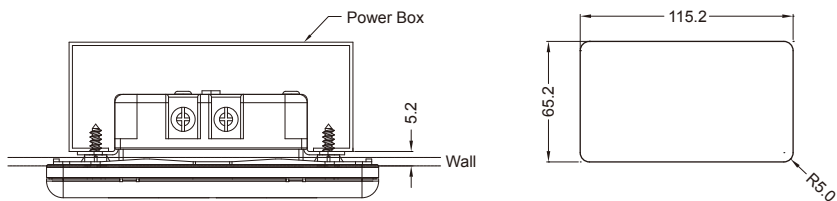


PANEL CUT-OUT

LTWPUS2-B2XFFA-SD7001

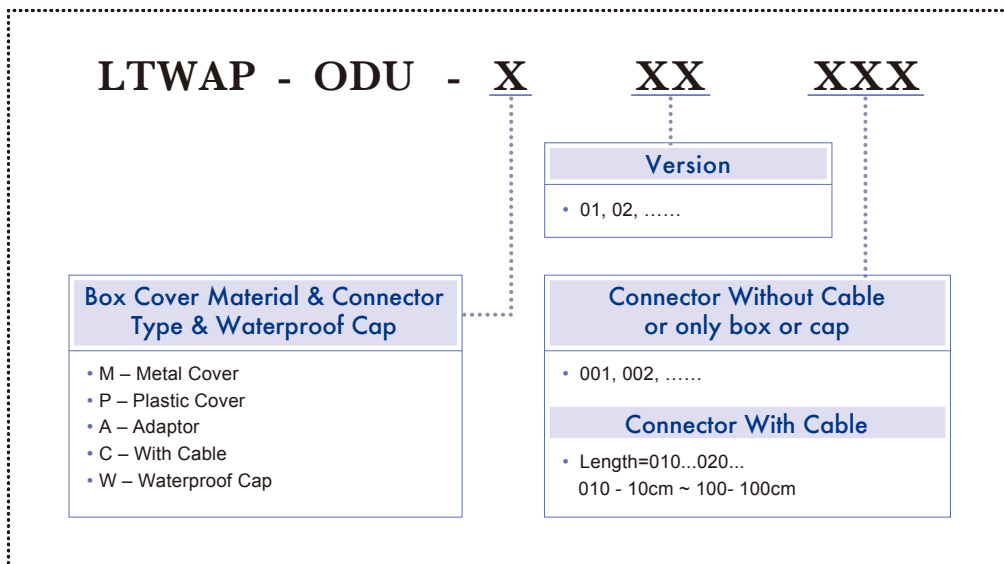


LTWPUS2-B2PFFA-SD6001

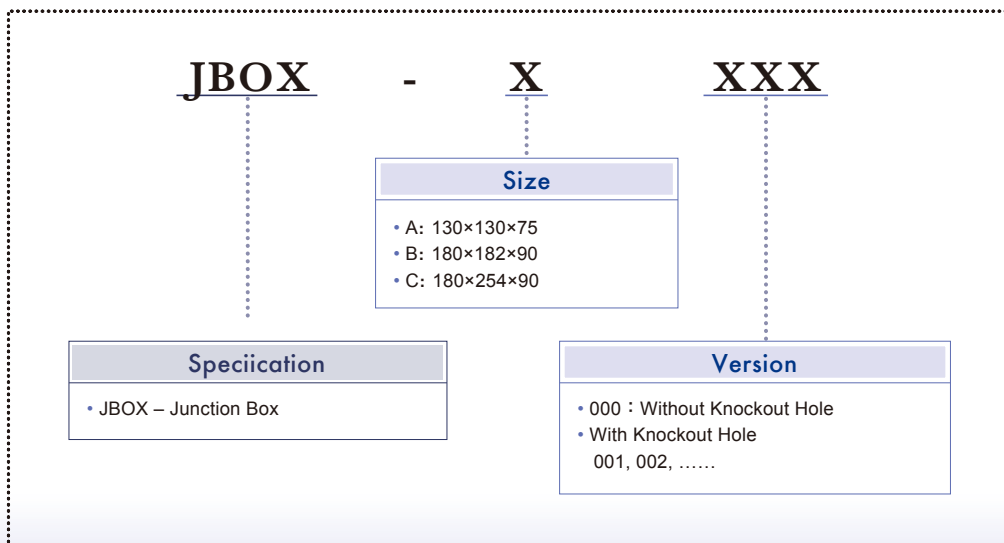


Recommended the distance from the box to wall need to be 5.2mm

Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
	<b>LTWPUS2-A3AMMM-SL7A01</b>  <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Molding Type</li> <li>• IP 67</li> </ul>		<b>LTWPUS2-B2PFFA-SD6001</b>  <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Assembly Type</li> <li>• IP 66</li> </ul>	
			<b>LTWPUS2-B2XFFA-SD7001</b>  <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• For Box</li> <li>• IP 67</li> </ul>	



**How to Order: Box Series-Junction Box**



**SPECIFICATIONS**


No.	Specifications	Standard Value
<b>01. Identifications</b>		AP-02, AP-03, AP-04, AP-06, AP-07
<b>02. Casing Materials</b>		AP-02: Aluminum Rectangular AP-03: Light Gray Aluminum Square, Unpainted Bottom (Upon Request) AP-04: White Aluminum Square, Painted Bottom AP-06: Aluminum Square, Unpainted Bottom (Upon Request) AP-07: Aluminum Square, Painted Bottom
<b>03. Cover Materials</b>		AP-02: Metal AP-03, 04, 06, 07: Metal or Plastic
<b>04. Accessories</b>		AP-02: SPCC Accessories AP-03: SPCC Accessories AP-04: SPCC Accessories AP-06: SUS Accessories AP-07: SUS Accessories
<b>05. Waterproof Rating</b>		IP65, IP67

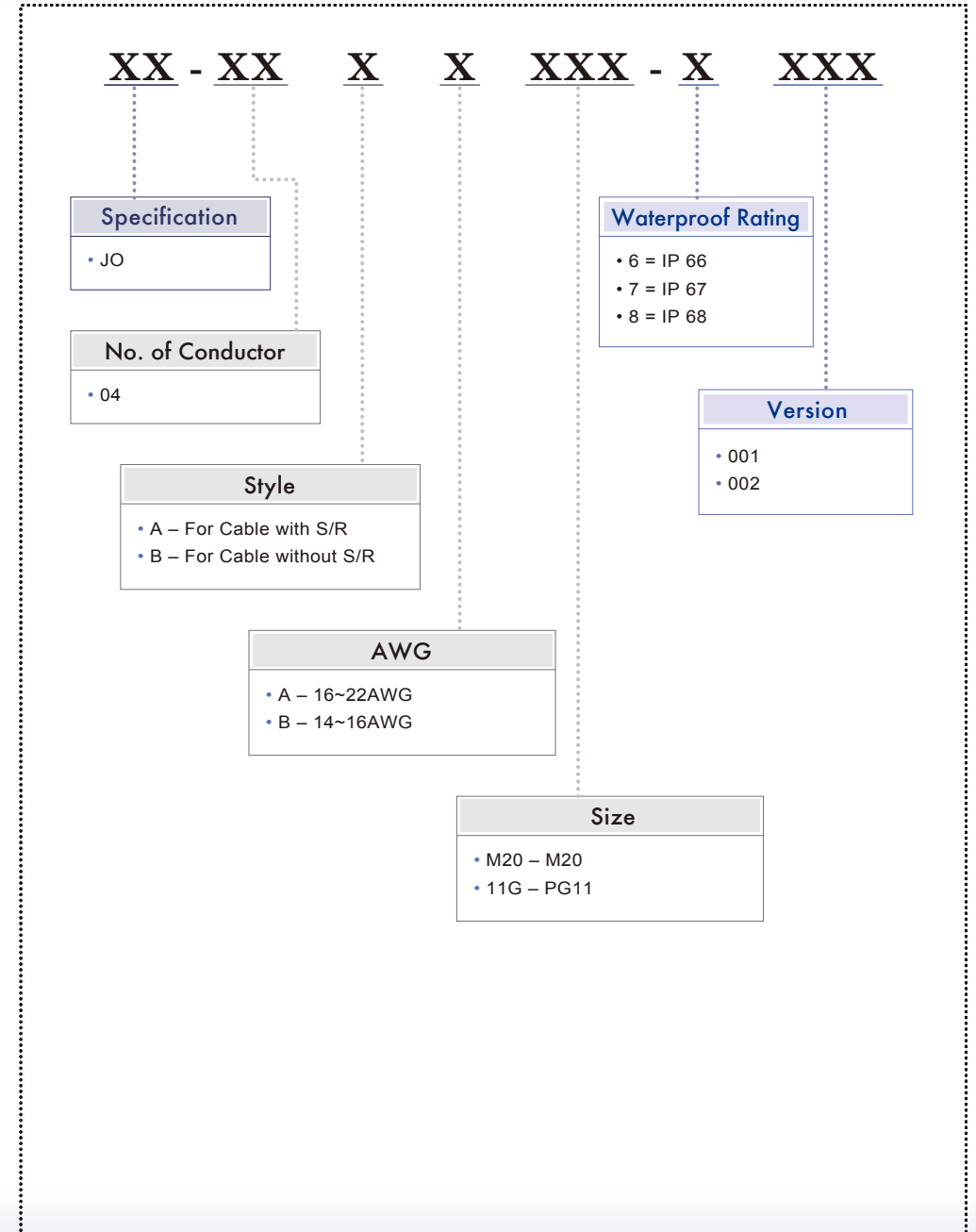
## 7 Box Series: Aluminum Rectangular (AP-02)

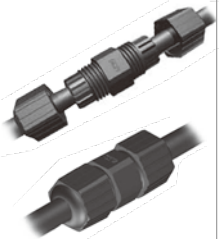

Choose Option		Fetures	Accessories	
CASING	P/N	SUGGESTED CONNECTOR (NOT INCL.)		
 	LTWAP-ODU-M00002	<b>FRONT:</b> <ul style="list-style-type: none"> <li>No Connection</li> <li>IP 65</li> </ul>		
		<b>REAR:</b> <ul style="list-style-type: none"> <li>No Connection</li> <li>IP 65</li> </ul>		
 	LTWAP-ODU-M01002	<b>FRONT:</b> <ul style="list-style-type: none"> <li>RJ45 × 1 pc</li> <li>IP 65</li> </ul>		
		<b>REAR:</b> <ul style="list-style-type: none"> <li>N BH Jack × 1 pc</li> <li>IP 65</li> </ul>		
 	LTWAP-ODU-M02002	<b>FRONT:</b> <ul style="list-style-type: none"> <li>RJ45 × 1 pc and N BH Jack to U.FL × 1 pc</li> <li>IP 65</li> </ul>		
		<b>REAR:</b> <ul style="list-style-type: none"> <li>N BH Jack × 1 pc</li> <li>IP 65</li> </ul>		
 	LTWAP-ODU-M03002	<b>FRONT:</b> <ul style="list-style-type: none"> <li>RJ45 × 2 pcs and N BH Jack to U.FL × 1 pc</li> <li>IP 65</li> </ul>		
		<b>REAR:</b> <ul style="list-style-type: none"> <li>No Connection</li> <li>IP 65</li> </ul>		

## 8 Box Series: Aluminum Square (AP-03, 04, 06, 07)

Choose Option		Fetures	Accessories	
CASING	P/N	SUGGESTED CONNECTOR (NOT INCL.)		
 	LTWAP-ODU-  0000	<b>FRONT:</b> <ul style="list-style-type: none"> <li>No Connection</li> <li>IP 67</li> </ul>		
		<b>REAR:</b> <ul style="list-style-type: none"> <li>No Connection</li> <li>IP 67</li> </ul>		
 	LTWAP-ODU-  0100	<b>FRONT:</b> <ul style="list-style-type: none"> <li>RJ45 × 1 pc</li> <li>IP 67</li> </ul>		
		<b>REAR:</b> <ul style="list-style-type: none"> <li>N BH Jack × 1 pc</li> <li>IP 67</li> </ul>		
 	LTWAP-ODU-  0200	<b>FRONT:</b> <ul style="list-style-type: none"> <li>RJ45 × 1 pc and N BH Jack to U.FL × 1 pc</li> <li>IP 67</li> </ul>		
		<b>REAR:</b> <ul style="list-style-type: none"> <li>N BH Jack × 1 pc</li> <li>IP 67</li> </ul>		
 	LTWAP-ODU-  0300	<b>FRONT:</b> <ul style="list-style-type: none"> <li>RJ45 × 2 pcs and N BH Jack × 1 pc</li> <li>IP 67</li> </ul>		
		<b>REAR:</b> <ul style="list-style-type: none"> <li>No Connection</li> <li>IP 67</li> </ul>	 	
 	LTWAP-ODU-  0400	<b>FRONT:</b> <ul style="list-style-type: none"> <li>RJ45 × 2 pcs and N BH Jack × 2 pcs</li> <li>IP 67</li> </ul>		
		<b>REAR:</b> <ul style="list-style-type: none"> <li>No Connection</li> <li>IP 67</li> </ul>		

Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
	<p><b>LTWJBOX-A001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• A Size: 130 × 130 × 75</li> <li>• 001 with Knockout Hole</li> <li>• UV Resistant Up to 300 Hours (Max.)</li> <li>• Temperature Range: -40°C to +85°C</li> <li>• IP 67</li> </ul>			<p>M8, M12, M16, M20, M25, M32, M40, PG7, PG9, PG11, PG13.5, PG16, PG29</p>



Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
	<p><b>LTWCX-04BAM20-7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• M20, 2 to 4 Conductor</li> <li>• Field Installable</li> <li>• Wiring Gauge 16~22AWG</li> <li>• Cable Range: Ø10mm, Ø6.2mm</li> <li>• UV Resistant</li> <li>• Temperature Range: -40°C to +85°C</li> <li>• IP 67</li> </ul>			

## SPECIFICATIONS

No.	Specifications	Standard Value
01.	Identifications	Cable Gland
02.	Description	Field Installable
03.	Thread Style	M8, M12, M16, M20, M25, M32, M40, E20 PG7, PG9, PG11, PG13.5, PG16, PG29
04.	Materials	Connector Body: Nylon 66, UL Recognized UV Resistant
05.	Temperature Range	-40°C to +105°C
06.	Waterproof Rating	IP68

Long Type	Thread Style	Cable OD	Panel Thickness	Length (With SR)	Length (Without SR)	IP
With SR	M12	Ø4.5~Ø6.5mm	Max 3.0mm	60.0mm	30.0mm	68
	M16	Ø6~Ø10mm	Max 7.5mm	78.0mm	45.0mm	68
	M20	Ø10~Ø14mm	Max 6.2mm	86.6mm	43.7mm	68
	M25	Ø13~Ø18mm	Max 6.2mm	96.0mm	52.1mm	68
	M32	Ø16~Ø22mm or Ø18~Ø25mm	Max 6.0mm		52.5mm	68
Without SR	M40	Ø20~Ø25mm or Ø24~Ø32mm	Max 9.0mm		60.0mm	68
	PG7	Ø4.5~Ø6.5mm	Max 3.0mm	60.0mm	30.0mm	68
	PG9	Ø6~Ø10mm	Max 7.5mm	78.0mm	45.0mm	68
	PG11	Ø6~Ø10mm	Max 6.0mm	79.1mm	48.3mm	68
	PG13.5	Ø10~Ø14mm	Max 6.2mm	86.6mm	49.6mm	68
	PG16	Ø6.5mm (for RJ) or Ø10~Ø14mm	Max 4.5mm (for RJ) or Max 6.0mm	86.6mm	49.6mm or 49.85mm (for RJ)	68
PG29	Ø16~Ø22mm or Ø18~Ø25mm	Max 6.0mm		52.5mm	68	

Short Type	Thread Style	Cable OD	Panel Thickness	Length (With SR)	Length (Without SR)	IP
With SR	M8	Ø2.5~Ø3mm			22.0mm	67
	M16	Ø6~Ø10mm	Max 3.0mm		40.0mm	68
	M20	Ø10~Ø14mm	Max 6.2mm	79.6mm	36.7mm	68
Without SR	M25	Ø13~Ø18mm	Max 6.2mm	89.0mm	45.0mm	68
	M32	Ø16~Ø22mm or Ø18~Ø25mm	Max 6.0mm		47.5mm	68
	PG16	Ø5.5~Ø7.5mm (for RJ) or Ø10~Ø14mm			44.6mm or 45.0mm (for RJ)	68
	E20	Ø5.5~Ø7mm or Ø7.8~Ø9.3mm	Max 5.0mm		40.0mm	68

**XXX - XX X X X X - X X X XXX**

**Number of Contacts**

- 02, 03, ..... Pin

**Style**

- A – For Cable with S/R
- B – For Cable without S/R
- P – For Panel Front Mounting
- R – For Panel Rear Mounting

**Connector Style**

- M – Male Connector
- F – Female Connector

**Specification**

- AD – Mini Size Current Rating 5A
- ASD – Mini Size Shield Current Rating 5A
- ASU – Mini Size Shield Current Rating 2A
- AU – Mini Size Current Rating 2A
- BB – Standard Size Current Rating 10A
- BBD – Standard Size Current Rating 10A+5A
- BD – Standard Size Current Rating 5A
- BDU – Standard Size Current Rating 5A+2A
- BSD – Standard Size Shield Current Rating 5A
- BSU – Standard Size Shield Current Rating 2A
- BSB – Standard Size Shield Current Rating 10A
- BU – Standard Size Current Rating 2A
- CB – Middle Size Current Rating 10A
- CBU – Middle Size Current Rating 10A+2A
- CBD – Middle Size Current Rating 10A+5A
- CC – Middle Size Current Rating 20A
- CD – Middle Size Current Rating 5A
- CDU – Middle Size Current Rating 5A+2A
- CU – Middle Size Current Rating 2A
- DC – Large Size Current Rating 20A
- DCD – Large Size Current Rating 20A+5A
- DD – Large Size Current Rating 5A
- DU – Large Size Current Rating 2A
- DSD – Large Size Shield Current Rating 5A
- ED – Macro Size Current Rating 5A
- GBD – Dimension Between B & C – 10A + 5A

**Waterproof Rating**

- 6 = IP 66
- 7 = IP 67
- 8 = IP 68

**Back Shell**

- L – Straight (180° For Cable Type)
- R – Right Angle (90° For Cable Type)
- C – Circular (For Panel Type)
- S – Square (For Panel Type)

**Mating Style**

- L – Two Point Lock
- S – Screw
- Q – Quick
- T – Three Point Lock

**Version**

- 000 : Phantom
- Without Cable 001, 002,.....
- For Cable A01 - 1M ~ A99 - 99M
- A - UL2464 Cable

**Assembly Style**

- M – Molding Type
- A – Assembly Type
- S – Solder Type
- P – 180° PCB Type
- R – 90° PCB Type
- B – Screw in Type

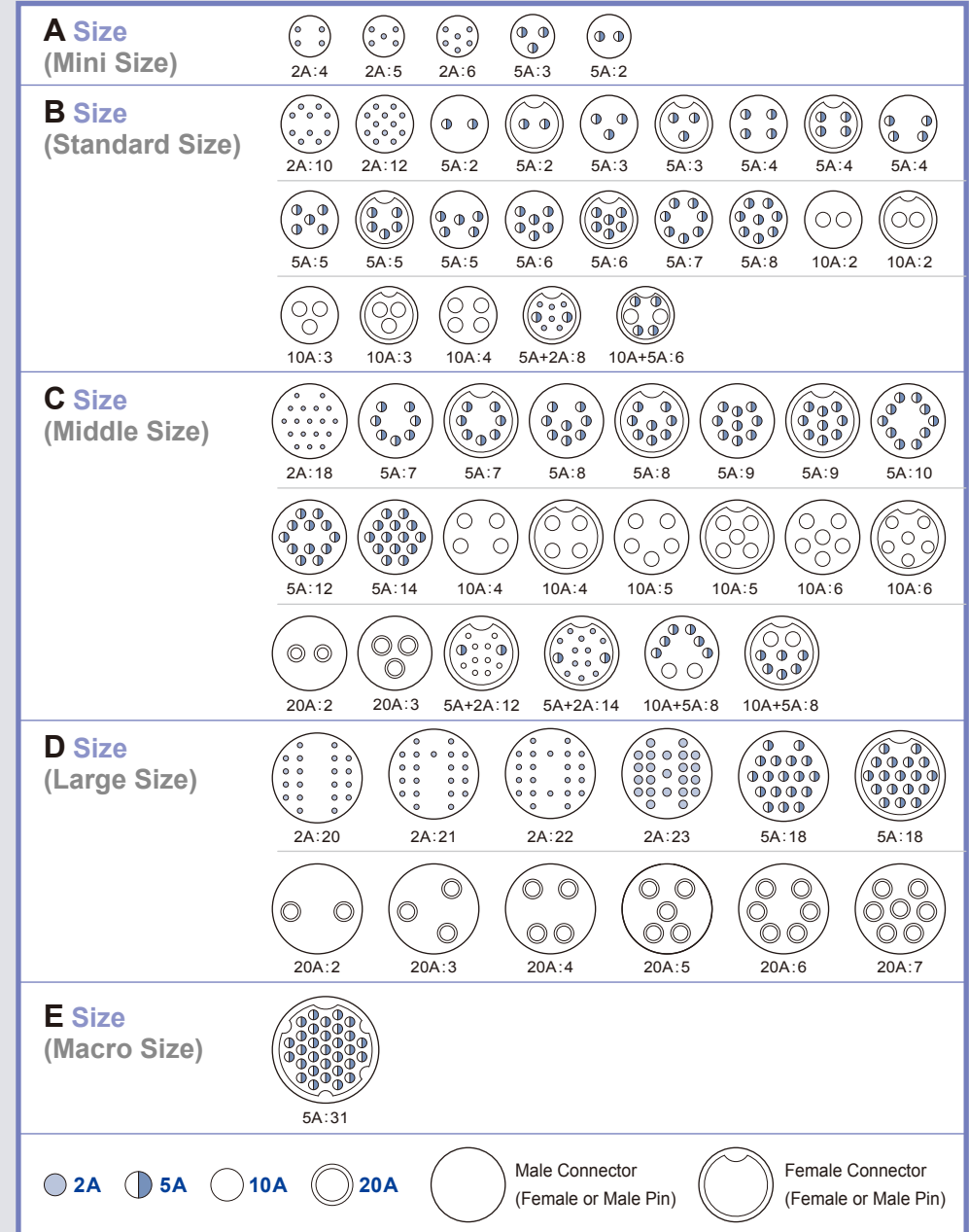
**Contact Type**

- M – Male
- F – Female
- C – Combo
- D – Female Power + Male Signal
- E – Male Power + Female Signal

SPECIFICATIONS





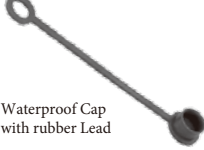



No.	Specifications	Standard Value
01. Identifications	A Size (Mini Size: 7/16"–28UNS) B Size (Standard Size: 5/8"–27UNS) C Size (Middle Size: 13/16"–28UN) D Size (Large Size: 1"–20UNEF) E Size (Macro Size: 1 3/16"–20UN)	
02. Description	Panel Mount, Molded with Cable and Field Installable	
03. Current Rating / Pin Arrangements	A Size (Mini): B Size (Standard): C Size (Middle): D Size (Large): E Size (Macro):	2A: 4 to 6, 5A: 2 and 3 2A: 10 or 12, 5A: 2 to 8, 10A: 2 to 4, 5A+2A: 8, 10A+5A: 6 2A: 18, 5A: 7 to 14, 10A: 4 to 6, 20A: 3, 5A+2A: 12 or 14, 10A+5A: 8 2A: 20 to 22, 5A: 18, 20A: 2 to 7 5A: 31
04. Material	Contacts: Copper Alloy, Gold Plated Connector Body: Nylon + GF, UL Recognized	
05. Temperature Range	Cable: -20°C to +80°C Connector Body: -40°C to +105°C	
06. Waterproof Rating	IP66, IP67 or IP68 (Per IEC60590)	
07. Contact Resistance	≤10mΩ	
08. Insulation Resistance	≥100mΩ at DC 500V	
09. Durability	1000 Plug / Unplug Cycles Minimum	
10. Breakdown Voltage	≥AC 1000V / 1 Minute, ≥500V / 1 Minute (1.5~5A)	
11. Corrosion	48 Hours Salt Spray Contact	
12. Standard Cable Length (for Molded Cable)	1, 2, 5, 10M (Standard Cable: UL2464 PVC Jacket)	











CONTACT PIN ARRANGEMENT




Panel (Chassis) Mount		Mating Parts	Accessories
CONNECTOR	FEATURE	CONNECTOR	CONNECTOR
<p><b>PLASTIC</b></p> 	<p><b>Pin:</b></p> <ul style="list-style-type: none"> <li>• 2A: 4 to 6</li> <li>• 5A: 2 and 3</li> </ul> <p><b>Mating Style:</b></p> <ul style="list-style-type: none"> <li>• Screw (Thread) Rear or Front Mounting</li> <li>• Lock (Bayonet) Rear or Front Mounting</li> </ul> <p><b>Assembly Style:</b></p> <ul style="list-style-type: none"> <li>• PCB 180° (P) or Solder (S)</li> </ul>	 <p>With SR</p>	 <p>Waterproof Cap with Rubber Lead</p>
		 <p>Without SR</p>	 <p>Waterproof Cap with Rubber Lead</p>
		 <p>Field Installable</p>	 <p>Waterproof Cover with Chain</p>
<p><b>METAL</b></p> 	<p><b>Pin:</b></p> <ul style="list-style-type: none"> <li>• 2A: 4 to 6</li> <li>• 5A: 2 and 3</li> </ul> <p><b>Mating Style:</b></p> <ul style="list-style-type: none"> <li>• Lock (Bayonet) Front Mounting</li> </ul> <p><b>Assembly Style:</b></p> <ul style="list-style-type: none"> <li>• PCB 180° (P) or Solder (S)</li> </ul>	 <p>With SR</p>	 <p>T Cable</p>
		 <p>Without SR</p>	 <p>T Adaptor</p>
		 <p>Field Installable</p>	 <p>T Adaptor</p>
			 <p>Extension Cord</p>

Panel (Chassis) Mount		Mating Parts	Accessories
CONNECTOR	FEATURE	CONNECTOR	CONNECTOR
<p><b>PLASTIC</b></p> 	<p><b>Pin:</b></p> <ul style="list-style-type: none"> <li>• 2A: 10 or 12</li> <li>• 5A: 2 to 8</li> <li>• 10A: 2 to 4</li> <li>• 5A + 2A: 8</li> <li>• 10A + 5A: 6</li> </ul> <p><b>Mating Style:</b></p> <ul style="list-style-type: none"> <li>• Screw (Thread) Rear or Front Mounting</li> <li>• Lock (Bayonet) Rear or Front Mounting</li> </ul> <p><b>Assembly Style:</b></p> <ul style="list-style-type: none"> <li>• PCB 180° (P) or PCB 90° or Solder (S)</li> </ul>	 <p>With SR</p>	 <p>Waterproof Cap with Rubber Lead</p>
		 <p>Without SR</p>	 <p>Waterproof Cap with Rubber Lead</p>
		 <p>Field Installable</p>	 <p>Waterproof Cover with Chain</p>
<p><b>METAL</b></p>  	<p><b>Pin:</b></p> <ul style="list-style-type: none"> <li>• 2A: 10</li> <li>• 5A: 4 to 8</li> </ul> <p><b>Mating Style:</b></p> <ul style="list-style-type: none"> <li>• Screw (Thread) Rear or Front Mounting</li> </ul> <p><b>Assembly Style:</b></p> <ul style="list-style-type: none"> <li>• PCB 180° (P) or Solder (S)</li> </ul>	 <p>Without SR</p>	 <p>T Cable</p>
		 <p>Without SR</p>	 <p>T Adaptor</p>
		 <p>Field Installable</p>	 <p>T Adaptor</p>
			 <p>Extension Cord</p>
			 <p>Tool</p>

Panel (Chassis) Mount		Mating Parts	Accessories
CONNECTOR	FEATURE	CONNECTOR	CONNECTOR
 <p><b>PLASTIC</b></p> <p><b>Pin:</b></p> <ul style="list-style-type: none"> <li>• 2A: 18</li> <li>• 5A: 7 to 10, 12, 14</li> <li>• 10A: 4 to 6</li> <li>• 20A: 3</li> <li>• 5A + 2A: 12 or 14</li> <li>• 10A + 5A: 8</li> </ul> <p><b>Mating Style:</b></p> <ul style="list-style-type: none"> <li>• Screw (Thread) Rear or Front Mounting</li> <li>• Lock (Bayonet) Rear or Front Mounting</li> </ul> <p><b>Assembly Style:</b></p> <ul style="list-style-type: none"> <li>• PCB 180° (P) or Solder (S)</li> </ul>		 <p>With SR</p>	 <p>Waterproof Cap with rubber Lead</p>
		 <p>Without SR</p>	 <p>Waterproof Cap with rubber Lead</p>
	 <p>Field Installable</p>	 <p>Waterproof Cover with Chain</p>	 <p>Tool</p>

Panel (Chassis) Mount		Mating Parts	Accessories
CONNECTOR	FEATURE	CONNECTOR	CONNECTOR
 <p><b>PLASTIC</b></p> <p><b>Pin:</b></p> <ul style="list-style-type: none"> <li>• 2A: 18, 20 to 22</li> <li>• 5A: 18</li> <li>• 10A: 2 to 7</li> <li>• 20A + 5A: 12</li> </ul> <p><b>Mating Style:</b></p> <ul style="list-style-type: none"> <li>• Screw (Thread) Rear or Front Mounting</li> <li>• Lock (Bayonet) Rear or Front Mounting</li> </ul> <p><b>Assembly Style:</b></p> <ul style="list-style-type: none"> <li>• PCB 180° (P) or Solder (S)</li> </ul>		 <p>With SR</p>	 <p>Waterproof Cap with rubber Lead</p>
		 <p>Field Installable (Screw-In Termination Contacts Are Available)</p>	 <p>Waterproof Cap with rubber Lead</p>
 <p><b>METAL</b></p> <p><b>Pin:</b></p> <ul style="list-style-type: none"> <li>• 5A: 18</li> </ul> <p><b>Mating Style:</b></p> <ul style="list-style-type: none"> <li>• Screw (Thread) Front Mounting</li> </ul> <p><b>Assembly Style:</b></p> <ul style="list-style-type: none"> <li>• PCB 180° (P) or Solder (S)</li> </ul>		 <p>Without SR</p>	 <p>Waterproof Cover with Chain</p>
		 <p>Without SR</p>	 <p>Tool</p>

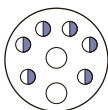
Panel (Chassis) Mount		Mating Parts	Accessories
CONNECTOR	FEATURE	CONNECTOR	
<p>PLASTIC</p> 	<p><b>Pin:</b></p> <ul style="list-style-type: none"> <li>• 5A: 31</li> </ul> <p><b>Mating Style:</b></p> <ul style="list-style-type: none"> <li>• Lock (Bayonet)</li> <li>• Front Mounting</li> </ul> <p><b>Assembly Style:</b></p> <ul style="list-style-type: none"> <li>• PCB 180° (P) or Solder (S)</li> </ul>	 <p>With SR</p>	

SPECIFICATIONS

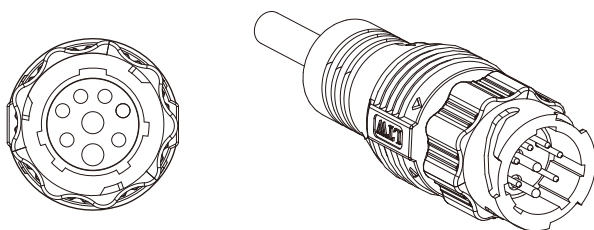
No.	Specifications	Standard Value
01.	Identifications	G Size
02.	Description	Panel Mount, Molded with Cable
03.	Current Rating / Pin Arrangements	5A: 6 + 10A: 2
04.	Material	Contacts: Copper Alloy Gold Plated Connector Body: PBT + PC
05.	Temperature Range	Connector: -40°C to +105°C Cable: -20°C to +105°C
06.	Waterproof Rating	IP67, IP68
07.	Contact Resistance	≤10mΩ
08.	Insulation Resistance	≥100MΩ at DC 500V
09.	Flame Test	UL94 V-0
10.	Breakdown Voltage	≥AC 1000V / 1 Minute
11.	Corrosion	48 Hours Salt Spray Contact
12.	Standard Cable Length (for Molded Cable)	1, 2, 5, 10M

CONTACT PIN ARRANGEMENT

10A+5A



What "3 Points Lock" is?



Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
	<p>LTWGBD-08△FFM-TL△AXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• 3 Point Lock</li> <li>• 180° In-line Molded Type</li> <li>• △ With or without SR</li> <li>• PVC Cable</li> <li>• △ IP 67 or IP 68</li> <li>• 10A+5A: 8</li> </ul>		<p>LTWGBD-08△MMM-TL△AXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• 3 Point Lock</li> <li>• 180° In-line Molded Type</li> <li>• △ With or without SR</li> <li>• PVC Cable</li> <li>• △ IP 67 or IP 68</li> <li>• 10A+5A: 8</li> </ul>	
	<p>LTWGBD-08△MMM-TL△AXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• 3 Point Lock</li> <li>• 180° In-line Molded Type</li> <li>• △ With or without SR</li> <li>• PVC Cable</li> <li>• △ IP 67 or IP 68</li> <li>• 10A+5A: 8</li> </ul>		<p>LTWGBD-08△FFM-TL△AXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• 3 Point Lock</li> <li>• 180° In-line Molded Type</li> <li>• △ With or without SR</li> <li>• PVC Cable</li> <li>• △ IP 67 or IP 68</li> <li>• 10A+5A: 8</li> </ul>	

SPECIFICATIONS

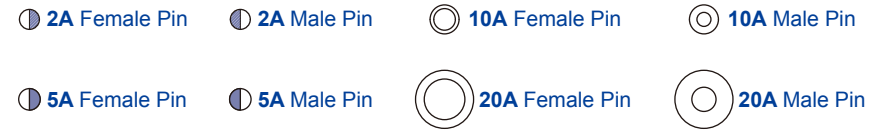
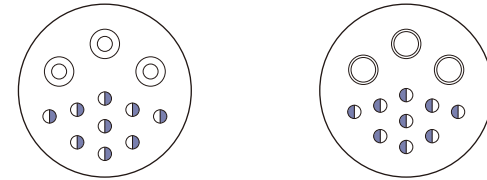
No.	Specifications	Standard Value
01. Identifications		C Size (Middle: 13/16"~28UN) D Size (Large: 1"~20UNEF)
02. Description		Panel Mount, Molded with Cable and Field Installable
03. Current Rating / Pin Arrangements		2A: 5 + 10A: 3 5A: 9 + 20A: 3
04. Material		Contacts: Copper Alloy Gold Plated Connector Body: PA
05. Temperature Range		Connector: -40°C to +105°C Cable: -20°C to +80°C
06. Waterproof Rating		IP67
07. Contact Resistance		≤10mΩ
08. Insulation Resistance		>100MΩ at DC 500V
09. Flame Test		UL94V-0
10. Breakdown Voltage		≥AC 1000V / 1 Minute
11. Corrosion		48 Hours Salt Spray Contact
12. Standard Cable Length (for Molded Cable)		1, 2, 5, 10M

CONTACT PIN ARRANGEMENT

C Size  
10A+2A







D Size  
20A+5A

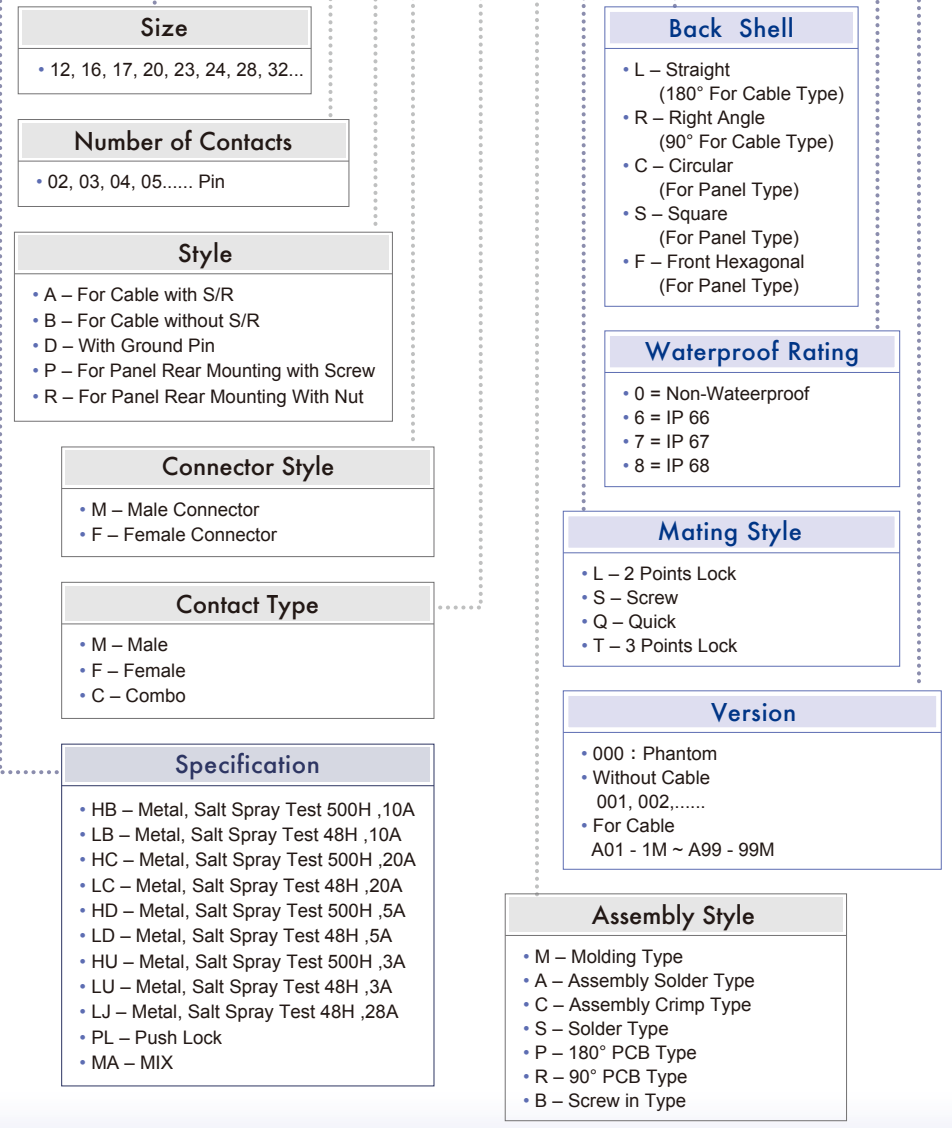


Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>LTWDCD-12PME<math>\Delta</math>-LC7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Bayonet Lock</li> <li>• <math>\Delta</math>Solder or PCB Contacts</li> <li>• Front Mounting</li> <li>• IP 67</li> <li>• 20A(3)+5A(9)</li> </ul>		 <p>LTWDCD-12<math>\Delta</math>FDM-LL7AXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Bayonet Lock</li> <li>• 180° In-line Molded Type</li> <li>• <math>\Delta</math> With or without SR</li> <li>• PVC Cable</li> <li>• IP 67</li> <li>• 20A(3)+5A(9)</li> </ul>		
		 <p>LTWDCD-12<math>\Delta</math>FDM-LR7AXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Bayonet Lock</li> <li>• 90° In-line Molded Type</li> <li>• <math>\Delta</math> With or without SR</li> <li>• PVC Cable</li> <li>• IP 67</li> <li>• 20A(3)+5A(9)</li> </ul>		
 <p><b>LTWDCD-12PMD<math>\Delta</math>-LC7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Bayonet Lock</li> <li>• <math>\Delta</math>Solder or PCB Contacts</li> <li>• Front Mounting</li> <li>• IP 67</li> <li>• 20A(3)+5A(9)</li> </ul>		 <p>LTWDCD-12<math>\Delta</math>FEM-LL7AXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Bayonet Lock</li> <li>• 180° In-line Molded Type</li> <li>• <math>\Delta</math> With or without SR</li> <li>• PVC Cable</li> <li>• IP 67</li> <li>• 20A(3)+5A(9)</li> </ul>		
		 <p>LTWDCD-12AFEM-LR7AXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Bayonet Lock</li> <li>• 90° In-line Molded Type</li> <li>• With SR</li> <li>• PVC Cable</li> <li>• IP 67</li> <li>• 20A(3)+5A(9)</li> </ul>		

Male Connector		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>LTWDCD-12AMDM-LL7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Bayonet Lock</li> <li>• 180° In-line Molded Type</li> <li>• With SR</li> <li>• PVC Cable</li> <li>• IP 67</li> <li>• 20A(3)+5A(9) Contacts</li> </ul>		 <p>LTWDCD-12AFEM-LL7AXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Bayonet Lock,</li> <li>• 180° In-line Molded Type</li> <li>• With or without SR</li> <li>• PVC Cable</li> <li>• IP 67</li> <li>• 20A+5A: 12</li> </ul>		
		 <p>LTWDCD-12AFEM-LR7AXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Bayonet Lock,</li> <li>• 90° In-line Molded Type</li> <li>• With SR</li> <li>• PVC Cable</li> <li>• IP 67</li> <li>• 20A+5A: 12</li> </ul>		
 <p><b>LTWDCD-12AMEM-LL7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Bayonet Lock</li> <li>• 180° In-line Molded Type</li> <li>• With SR</li> <li>• PVC Cable</li> <li>• IP 67</li> <li>• 10A(3)+2A(5) Contacts</li> </ul>		 <p>LTWDCD-12AFDM-LL7AXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Bayonet Lock,</li> <li>• 180° In-line Molded Type</li> <li>• With or without SR</li> <li>• PVC Cable</li> <li>• IP 67</li> <li>• 20A+5A: 12</li> </ul>		
		 <p>LTWDCD-12AFDM-LR7AXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Bayonet Lock,</li> <li>• 90° In-line Molded Type</li> <li>• With SR</li> <li>• PVC Cable</li> <li>• IP 67</li> <li>• 20A+5A: 12</li> </ul>		

Panel (Chassis) Mount		Mating Parts of 1 & 2		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>1</b></p> <p><b>LTWCBU-12PMD-TC7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• 3 Point Lock</li> <li>• Solder or PCB Contacts</li> <li>• Front Mounting</li> <li>• IP 67</li> <li>• 10A(3)+2A(5) Contacts</li> </ul>		 <p><b>LTWCBU-08FEM-T7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• 3 Point Lock</li> <li>• With or without SR</li> <li>• 180° or 90° In-line Molded Type</li> <li>• PVC Cable</li> <li>• IP 67</li> <li>• 10A(3)+2A(5) Contacts</li> </ul>		
 <p><b>2</b></p> <p><b>LTWCBU-08PME-TC7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Three Point Lock,</li> <li>• Solder or PCB Contacts</li> <li>• Front Mounting</li> <li>• IP 67</li> <li>• 10A(3)+2A(5) Contacts</li> </ul>		 <p><b>LTWCBU-08FDM-T7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• 3 Point Lock</li> <li>• With or without SR</li> <li>• 180° or 90° In-line Molded Type</li> <li>• PVC Cable</li> <li>• IP 67</li> <li>• 10A(3)+2A(5) Contacts</li> </ul>		

**XX XX - XX X X X X - X X X XXX**



**SPECIFICATIONS**

No.	Specifications	Standard Value
01. Identifications		Push Lock 12 Size
02. Description		Assembly Type, Panel Mount
03. Current Rating / Pin Arrangements		5A: 2 to 4
04. Material		Contacts: Copper Alloy Gold Plated Connector Body: Nylon + GF
05. Temperature Range		Connector: -40°C to +105°C
06. Waterproof Rating		IP67
07. Contact Resistance		<10mΩ
08. Insulation Resistance		≥100MΩ at DC 500V
09. Flame Test		UL94V-2
10. Breakdown Voltage		≥AC 1600V / 1 Minute
11. Corrosion		48 Hours Salt Spray Contact

**SPECIFICATIONS**

No.	Specifications	Standard Value
01. Identifications		20 Size
02. Description		Panel Mount, Assembly Type
03. Current Rating / Pin Arrangements		Current Rating : 5A Pin Arrangements : 10, 12, 14 Contacts Current Rating : 10A Pin Arrangements : 4, 5, 7 Contacts Current Rating : 20A Pin Arrangements : 2, 3 Contacts
04. Light Color		Black / Silver
05. Material		Contacts : Copper Alloy Connector Body : Metal Connector Insulation : Nylon
06. Temperature Range		Connector Body : -25°C to +85°C
07. Waterproof Rating		IP68
08. Contact Resistance		≤5mΩ
09. Insulation Resistance		>1000MΩ at DC 500V
10. Flame Test		UL94V-0
11. Breakdown Voltage		≥AC 1000V / 1 Minute
12. Corrosion		48 and 500 Hours Salt Spray Contact

CONTACT PIN ARRANGEMENT

Push Lock Connector		
5A		
Metallic Connector		
5A		
10A		
20A		
MIX Connector		
10A		
5A                     10A                     20A	Female Connector Male Pin Male Connector Female Pin	Female Connector Male Pin Female Connector Male Pin
Male Connector Female Pin	Female Connector Male Pin	

Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
	LTWPL12-BMFA-QL7001 <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Push Lock Type</li> <li>• 180° In-line Assembly Type</li> <li>• IP 67</li> <li>•  5A: 02, 03, 04</li> </ul>		LTWPL12-BFMA-QL7001 <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Push Lock Type</li> <li>• 180° In-line Assembly Type</li> <li>• IP 67</li> <li>•  5A: 02, 03, 04</li> </ul>	
	LTWPL12-PMFP-QC7001 <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Push Lock Type</li> <li>• Solder or PCB Contacts</li> <li>• Front Mounting</li> <li>• IP 67</li> <li>•  5A: 02, 03, 04</li> </ul>			Dust Cap (For Male)

Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
	<b>LTWLD20-△SMFS-SS8001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Screw Type, Solder Contacts</li> <li>• Front Mounting</li> <li>• IP 68</li> <li>• L: Salt Spray Test 48 Hours</li> <li>• △ 5A: 10, 12 and 14</li> </ul>		<b>LTWLD20-△BFMA-SL8001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Assembly Type</li> <li>• IP 68</li> <li>• Better Cable Retention</li> <li>• △ 5A: 10, 12 and 14</li> </ul>	
	<b>LTWLD20-△RMFS-SS8001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Nut Type, Solder Contacts</li> <li>• Rear Mounting</li> <li>• IP 68</li> <li>• L: Salt Spray Test 48 Hours</li> <li>• △ 5A: 10, 12 and 14</li> </ul>			
	<b>LTWHD20-△SMFS-SS8001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Screw Type, Solder Contacts</li> <li>• Front Mounting</li> <li>• IP 68</li> <li>• H: Salt Spray Test 500 Hours</li> <li>• △ 5A: 10, 12 and 14</li> </ul>		<b>LTWHD20-△BFMA-SL8001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Assembly Type</li> <li>• IP 68</li> <li>• Better Cable Retention</li> <li>• △ 5A: 10, 12 and 14</li> </ul>	
	<b>LTWHD20-△RMFS-SS8001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Nut Type, Solder Contacts</li> <li>• Rear Mounting</li> <li>• IP 68</li> <li>• H: Salt Spray Test 500 Hours</li> <li>• △ 5A: 10, 12 and 14</li> </ul>			

Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
	<b>LTWLB20-△SMFS-SS8001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Screw Type, Solder Contacts</li> <li>• Front Mounting</li> <li>• IP 68</li> <li>• L: Salt Spray Test 48 Hours</li> <li>• △ 10A: 4, 5 and 7</li> </ul>		<b>LTWLB20-△BFMA-SL8001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Assembly Type</li> <li>• Rear Mounting</li> <li>• IP 68</li> <li>• Better Cable Retention</li> <li>• △ 10A: 4, 5 and 7</li> </ul>	
	<b>LTWLB20-△RMFS-SS8001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Nut Type, Solder Contacts</li> <li>• Rear Mounting</li> <li>• IP 68</li> <li>• L: Salt Spray Test 48 Hours</li> <li>• △ 10A: 4, 5 and 7</li> </ul>			
	<b>LTWHB20-△SMFS-SS8001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Screw Type, Solder Contacts</li> <li>• Front Mounting</li> <li>• IP 68</li> <li>• H: Salt Spray Test 500 Hours</li> <li>• △ 10A: 4, 5 and 7</li> </ul>		<b>LTWHB20-△BFMA-SL8001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Assembly Type</li> <li>• Rear Mounting</li> <li>• IP 68</li> <li>• Better Cable Retention</li> <li>• △ 10A: 4, 5 and 7</li> </ul>	
	<b>LTWHB20-△RMFS-SS8001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Nut Type, Solder Contacts</li> <li>• Rear Mounting</li> <li>• IP 68</li> <li>• H: Salt Spray Test 500 Hours</li> <li>• △ 10A: 4, 5 and 7</li> </ul>			

Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
	<b>LTWLC20-ΔSMFS-SS8001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Screw Type, Solder Contacts</li> <li>• Front Mounting</li> <li>• IP 68</li> <li>• L: Salt Spray Test 48 Hours</li> <li>• Δ 20A: 2 and 3</li> </ul>		<b>LTWLC20-ΔBFMA-SL801</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Assembly Type</li> <li>• IP 68</li> <li>• Better Cable Retention</li> <li>• Δ 20A: 2 and 3</li> </ul>	
	<b>LTWLC20-ΔRMFS-SS8001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Nut Type, Solder Contacts</li> <li>• Rear Mounting</li> <li>• IP 68</li> <li>• L: Salt Spray Test 48 Hours</li> <li>• Δ 20A: 2 and 3</li> </ul>			
	<b>LTWHC20-ΔSMFS-SS8001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Screw Type, Solder Contacts</li> <li>• Front Mounting</li> <li>• IP 68</li> <li>• H: Salt Spray Test 500 Hours</li> <li>• Δ 20A: 2 and 3</li> </ul>		<b>LTWHC20-ΔBFMA-SL801</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Assembly Type</li> <li>• IP 68</li> <li>• Better Cable Retention</li> <li>• Δ 20A: 2 and 3</li> </ul>	
	<b>LTWHC20-ΔRMFS-SS8001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Nut Type, Solder Contacts</li> <li>• Rear Mounting</li> <li>• IP 68</li> <li>• H: Salt Spray Test 500 Hours</li> <li>• Δ 20A: 2 and 3</li> </ul>			

**XX XX - XX X X X X - X X X XXX**

**Size**

- 12, 16, 17, 20, 23, 24, 28, 32...

**Number of Contacts**

- 02, 03, 04, 05..... Pin

**Style**

- A – For Cable with S/R
- B – For Cable without S/R
- D – With Ground Pin
- P – For Panel Rear Mounting with Screw
- R – For Panel Rear Mounting With Nut

**Connector Style**

- M – Male Connector
- F – Female Connector

**Contact Type**

- M – Male
- F – Female
- C – Combo

**Specification**

- HB – Metal, Salt Spray Test 500H ,10A
- LB – Metal, Salt Spray Test 48H ,10A
- HC – Metal, Salt Spray Test 500H ,20A
- LC – Metal, Salt Spray Test 48H ,20A
- HD – Metal, Salt Spray Test 500H ,5A
- LD – Metal, Salt Spray Test 48H ,5A
- HU – Metal, Salt Spray Test 500H ,3A
- LU – Metal, Salt Spray Test 48H ,3A
- LJ – Metal, Salt Spray Test 48H ,28A
- PL – Push Lock
- MA – MIX

**Back Shell**

- L – Straight (180° For Cable Type)
- R – Right Angle (90° For Cable Type)
- C – Circular (For Panel Type)
- S – Square (For Panel Type)
- F – Front Hexagonal (For Panel Type)

**Waterproof Rating**

- 0 = Non-Waterproof
- 6 = IP 66
- 7 = IP 67
- 8 = IP 68

**Mating Style**

- L – 2 Points Lock
- S – Screw
- Q – Quick
- T – 3 Points Lock

**Version**

- 000 : Phantom
- Without Cable 001, 002,.....
- For Cable A01 - 1M ~ A99 - 99M

**Assembly Style**


- M – Molding Type
- A – Assembly Solder Type
- C – Assembly Crimp Type
- S – Solder Type
- P – 180° PCB Type
- R – 90° PCB Type
- B – Screw in Type

Amphenol LTW Technology Co., Ltd.

www.amphenolltw.com

SPECIFICATIONS

No.	Specifications	Standard Value
01. Identifications		MIX Connector
02. Description		Molded with cable
03. Current Rating / Pin Arrangements		10A : 4
04. Material		Contacts: Copper Alloy,Gold Plated Connector Body: Nylon+GF, UL Recognized
05. Temperature Range		Cable: -20°C to +80°C
06. Waterproof Rating		IP66
07. Contact Resistance		≤10mΩ
08. Insulation Resistance		≥100mΩ at DC 500V
09. Durability		1000 Plug / Unplug Cycles Minimun
10. Breakdown Voltage		≥AC 1000V / 1 Minute
11. Standard Cable Length (for Molded Cable)		1-99M (Standard Cable: UL2464 PVC Jacket)

Male Connector		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
	<b>LTWMA17-04BMFM-LL6AXX</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• 180° Molded with Cable</li> <li>• PVC Cable</li> <li>• Lock Type</li> <li>• 10A: 4</li> <li>• IP 66</li> <li>• Equivalent to AMP CPC Series: AMP206430-2</li> </ul>		<b>LTWMA17-04BFMM-LL6AXX</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• 180° Molded with Cable</li> <li>• PVC Cable</li> <li>• Lock Type</li> <li>• 10A: 4</li> <li>• IP 66</li> <li>• Equivalent to AMP CPC Series: AMP206429-1</li> </ul>	

Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
	<b>LTWLJ23-06PMMC-SF7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Metal; Salt Spray Test 48 Hours; 28A</li> <li>• Front Mounting</li> <li>• Male Connector</li> <li>• Screw Type</li> <li>• Front Hexagonal Backshell</li> <li>• IP 67</li> </ul>		<b>LTWLJ23-06DFFC-SL7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Metal; Salt Spray Test 48 Hours; 28A</li> <li>• With Ground Pin</li> <li>• Female Connector</li> <li>• Assembly Crimp Type</li> <li>• 180° for Cable Type</li> <li>• IP 67</li> </ul>	
	<b>LTWLJ23-06PMFC-SF7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Metal; Salt Spray Test 48 Hours; 28A</li> <li>• Front Mounting</li> <li>• Female Connector</li> <li>• Screw Type</li> <li>• Front Hexagonal Backshell</li> <li>• IP 67</li> </ul>		<b>LTWLJ23-06DFMC-SL7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Metal; Salt Spray Test 48 Hours; 28A</li> <li>• With Ground Pin</li> <li>• Male Connector</li> <li>• Assembly Crimp Type</li> <li>• 180° for Cable Type</li> <li>• IP 67</li> </ul>	

**XXX - XX X X X X - X X X XXX**

**Number of Contacts**  
 • 09, 15, 25, 26, ...78 Pins

**Style**  
 • A – For Cable with S/R  
 • B – For Cable without S/R  
 • P – For Panel Front Mounting  
 • J – For Joint

**Connector Style**  
 • M – Male Connector  
 • F – Female Connector  
 • N – Not Connector

**Contact Type**  
 • M – Male  
 • F – Female  
 • N – Not Pin

**Specification**  
 • SDB – D-SUB Shielded Connector  
 • HDB – High Density D-SUB Shielded Connector  
 • PDB – D-SUB Plastic Connector  
 • HDP – High Density D-SUB Plastic Connector  
 • DJ1 – DB 09 Pin HD 15 Pin Joint  
 • DJ2 – DB 15 Pin HD 26 Pin Joint  
 • DJ3 – DB 25 Pin HD 44 Pin Joint  
 • DJ4 – DB 37 Pin HD 62 Pin Joint  
 • DJ5 – DB 50 Pin HD 78 Pin Joint

**Version**  
 • 000 : Phantom  
 • Without Cable  
 • 001, 002, .....  
 • For Cable  
 A01 - 1M ~ A99-99M  
 • A-UL2464 Cable

**Waterproof Rating**  
 • 6 = IP 66  
 • 7 = IP 67  
 • 8 = IP 68

**Back Shell**  
 • L – Straight (180° without Broad Lock)  
 • R – Right Angle (90° without Broad Lock)  
 • A – Straight with Board Lock (180° with Board Lock for PCB Panel)  
 • B – Right Angle with Board Lock (90° with Board Lock for PCB Panel)  
 • J – With RJ45 Jack

**Mating Style**  
 • L – Latch  
 • S – Screw  
 • Q – Quick

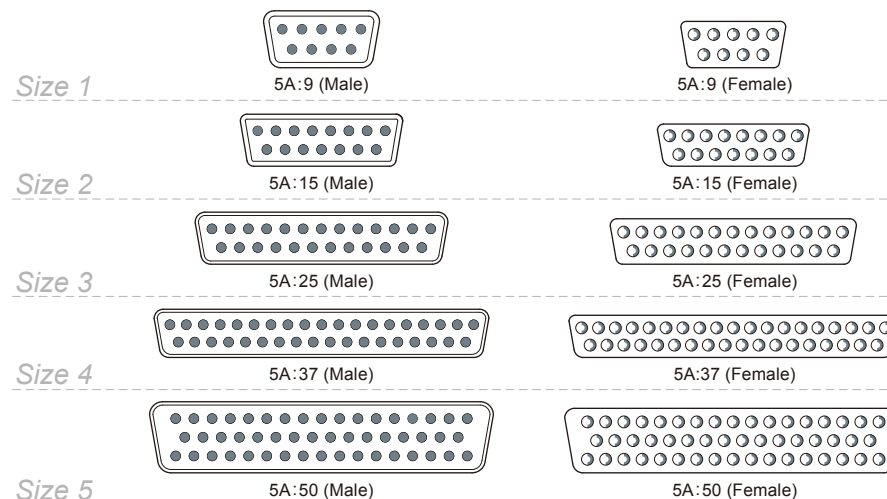
**Assembly Style**  
 • M – Molding Type  
 • A – Assembly Type  
 • S – Solder Type  
 • P – 180° PCB Type  
 • C – Crimp Type

### SPECIFICATIONS

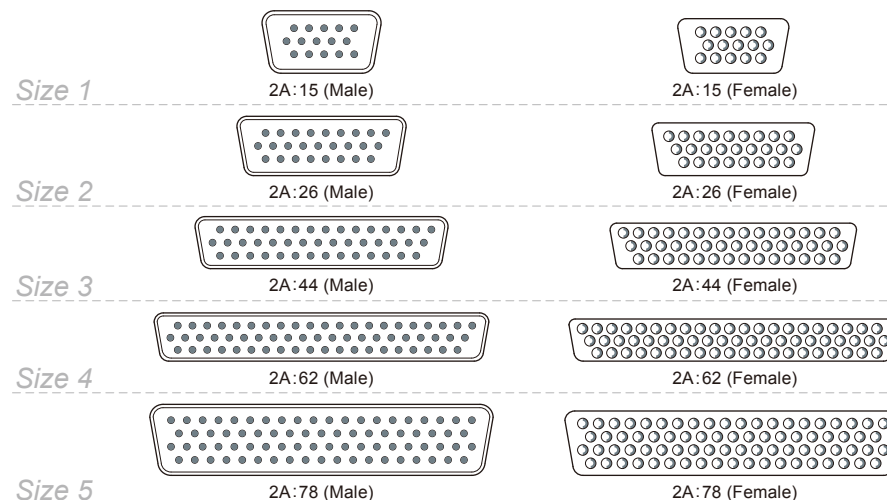
No.	Specifications	Standard Value
01. Identifications		Standard D-Sub Connector High Density D-Sub Connector
02. Description		Panel Mount, Molded with Cable and Field Installable
03. Current Rating / Pin Arrangements		Standard D-Sub: 5A: 9, 15, 25, 37, 50 High Density D-Sub: 2A: 15, 26, 44, 62, 78
04. Material		Contacts: Copper Alloy, Gold Plated Connector Body: Nylon 9T or PBT, UL Recognized Shell: Steel, Nickel Plated
05. Temperature Range		Cable: -20°C to +80°C Connector Body: -40°C to +105°C
06. Waterproof Rating		IP67, IP68
07. Contact Resistance		≤20mΩ
08. Insulation Resistance		≥500mΩ at DC 500V
09. Breakdown Voltage		≥AC 500V / 1 Minute
10. Standard Cable Length (for Molded Cable)		1-99M (Standard Cable: UL2464)
11. Field Installable		All Solder Contacts Unless and Otherwise Indicated

### CONTACT PIN ARRANGEMENT

#### Standard D-SUB



#### Hi-Density D-SUB

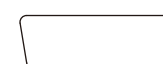


Male: • 2A • 5A

Female: ○ 2A ○ 5A



Male Connector  
(Male Pin)



Female Connector  
(Female Pin)

Panel (Chassis) Mount		Mating Parts of 1~3	
CONNECTOR	P/N	CONNECTOR	P/N
 <p><b>1</b></p> <p><b>LTWSDB-15P</b>     <b>8001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• 15 Pins</li> <li>• Push-pull Type</li> <li>• Shielded</li> <li>• IP68</li> <li>•  Available in FF or MM Style</li> <li>•  Available in PCB or Solder Style</li> <li>•  Available in PCB180°, PCB90°, Straight</li> </ul>		 <p><b>LTWSDB-15B</b>     <b>7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Without SR</li> <li>• Push-pull Type</li> <li>•  Available in FF or MM Style</li> <li>• Solder Contacts</li> <li>• Field Installable</li> <li>• IP 67</li> </ul>	
			 <p><b>LTWSDB-A</b>     <b>7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Shielded</li> <li>• Screw Type</li> <li>• Molded with Cable</li> <li>• IP 67</li> <li>•  Available in 09, 15, 25 and 37 Pins</li> <li>•  Available in FF or MM Style</li> </ul>
 <p><b>2</b></p> <p><b>LTWSDB-P</b>        <b>001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Shielded</li> <li>•  Available in 9, 15, 25 and 37 pins</li> <li>•  Available in FF or MM Style</li> <li>•  Available in PCB or Solder Style</li> <li>•  Available in PCB180°, PCB90°, Straight or Right</li> <li>•  Available in IP 67 or IP 68</li> </ul>		 <p><b>LTWSDB-B</b>     <b>7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Shielded</li> <li>• Field Installable</li> <li>• IP 67</li> <li>•  Available in 09, 15 and 25 Pins</li> <li>•  Available in FF or MM Style</li> <li>•  Available in Solder or Crimp Contacts</li> </ul>	
			 <p><b>LTWSDB-15BMMMA-SJ7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Field Installable</li> <li>• IP 67</li> <li>• Solder Contacts</li> </ul>
 <p><b>3</b></p> <p><b>LTWSDB-50P</b>     <b>7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Shielded</li> <li>• IP 67</li> <li>•  Available in FF or MM Style</li> <li>•  Available in PCB or Solder Style</li> </ul>		 <p><b>LTWSDB-50A</b>     <b>7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Shielded</li> <li>• Molded with Cable</li> <li>• Screw Type</li> <li>• IP 67</li> <li>•  Available in FF or MM Style</li> </ul>	

Panel (Chassis) Mount		Mating Parts		Accessories		
CONNECTOR	P/N	CONNECTOR	P/N			
 <p><b>1</b></p> <p><b>LTWHDB-26P</b>     <b>8001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• 26 Pins</li> <li>• Push-Pull Type</li> <li>• Shielded</li> <li>• IP 68</li> <li>•  Available in FF or MM Style</li> <li>•  Available in PCB or Solder Style</li> <li>•  Available in PCB180°, PCB90°, Straight or Right</li> </ul>		 <p><b>LTWHDB-26B</b>    <b>7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Without SR</li> <li>• Push-Pull Type</li> <li>•  Available in FF or MM Style</li> <li>• Solder Contacts</li> <li>• Field Installable</li> </ul> <p>• Only for <b>1</b></p>				
			 <p><b>LTWHDB-A</b>     <b>7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Shielded</li> <li>• Screw Type</li> <li>• Molded with Cable</li> <li>• IP 67</li> <li>•  Available in 15, 26, 44, and 62 Pins</li> <li>•  Available in FF or MM Style</li> </ul> <p>• Only for <b>2 and 3</b></p>			
 <p><b>2</b></p> <p><b>LTWHDB-P</b>       <b>001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Shielded</li> <li>•  Available in 15, 26, 44 and 62 pins</li> <li>•  Available in FF or MM Style</li> <li>•  Available in PCB or Solder Style</li> <li>•  Available in PCB180°, PCB90°, Straight or Right</li> <li>•  Available in IP67 or IP68</li> </ul>		 <p><b>LTWHDB-B</b>     <b>7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Shielded</li> <li>• Field Installable</li> <li>• IP 67</li> <li>•  Available in 15, 26, and 44 Pins</li> <li>•  Available in FF or MM Style</li> <li>•  Available in Solder or Crimp Contacts</li> </ul> <p>• Only for <b>2 and 3</b></p>				
			 <p><b>3</b></p> <p><b>LTWHDB-78P</b>     <b>7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Shielded</li> <li>• IP 67</li> <li>•  Available in FF or MM Style</li> <li>•  Available in PCB or Solder Style</li> </ul>		 <p><b>LTWHDB-78A</b>     <b>7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Shielded</li> <li>• Molded with Cable</li> <li>• Screw Type</li> <li>• IP 67</li> <li>•  Available in FF or MM Style</li> </ul> <p>• Only for <b>2 and 3</b></p>	

**XXX - XX X X X X - X X X XXX**

**Number of Contacts**

- 19, 23, 25, 29 ..... Pin

**Style**

- A – For Cable with S/R
- B – For Cable without S/R
- P – For Panel

**Connector Style**

- M – Male Connector
- F – Female Connector

**Contact Type**

- M – Male
- F – Female

**Specification**

- DIS – DVI-I Connector Single Link
- DID – DVI-I Connector Dual Link
- DDS – DVI-D Connector Single Link
- DDD – DVI-D Connector Dual Link

**Mating Style**

- L – Latch
- S – Screw
- Q – Quick

**Waterproof Rating**

- 6 = IP 66
- 7 = IP 67
- 8 = IP 68

**Back Shell**

- L – Straight (180°)
- R – Right Angle (90°)
- A – Straight With Board Lock (180° with Board Lock For PCB Panel)
- B – Right Angle With Board Lock (90° With Board Lock For PCB Panel)

**Version**

- 000 : Phantom
- Without Cable 001, 002,.....
- For Cable A01 - 1M ~ A99 - 99M
- A - UL20276 30AWG/PVC

**Assembly Style**

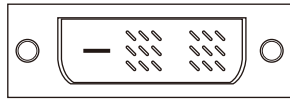
- M – Molding Type
- A – Assembly Type
- S – Solder Type
- P – 180° PCB Type

**SPECIFICATIONS**

No.	Specifications	Standard Value
01. Identifications		DVI-D Single Link (DDS) DVI-D Dual Link (DDD) DVI-I Single Link (DIS) DVI-I Dual Link (DID)
02. Description		Panel Mount, Molded with Cable
03. Pin Arrangements		DVI-D Single Link (DDS): 19 Contacts DVI-D Dual Link (DDD): 25 Contacts DVI-I Single Link (DIS): 23 Contacts DVI-I Dual Link (DID): 29 Contacts
04. Material		Contacts: Copper Alloy, Gold Plated Connector Body: Nylon + GF , UL Recognized Shell: Steel, Nickel Plated
05. Temperature Range		Cable: -20°C to +80°C Connector Body: -20°C to +85°C
06. Waterproof Rating		IP67
07. Contact Resistance		≤20mΩ
08. Insulation Resistance		≥1000mΩ at DC 500V
09. Standard Cable Length (for Molded Cable)		1-5M (Standard Cable: UL20276 28 AWG / PVC)

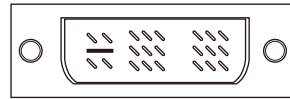
**CONTACT PIN ARRANGEMENT**

**DVI-D Single Link (DDS)**



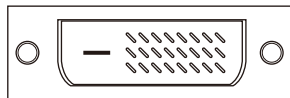
19 Contacts

**DVI-I Single Link (DIS)**



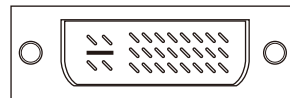
23 Contacts

**DVI-D Dual Link (DDD)**








25 Contacts

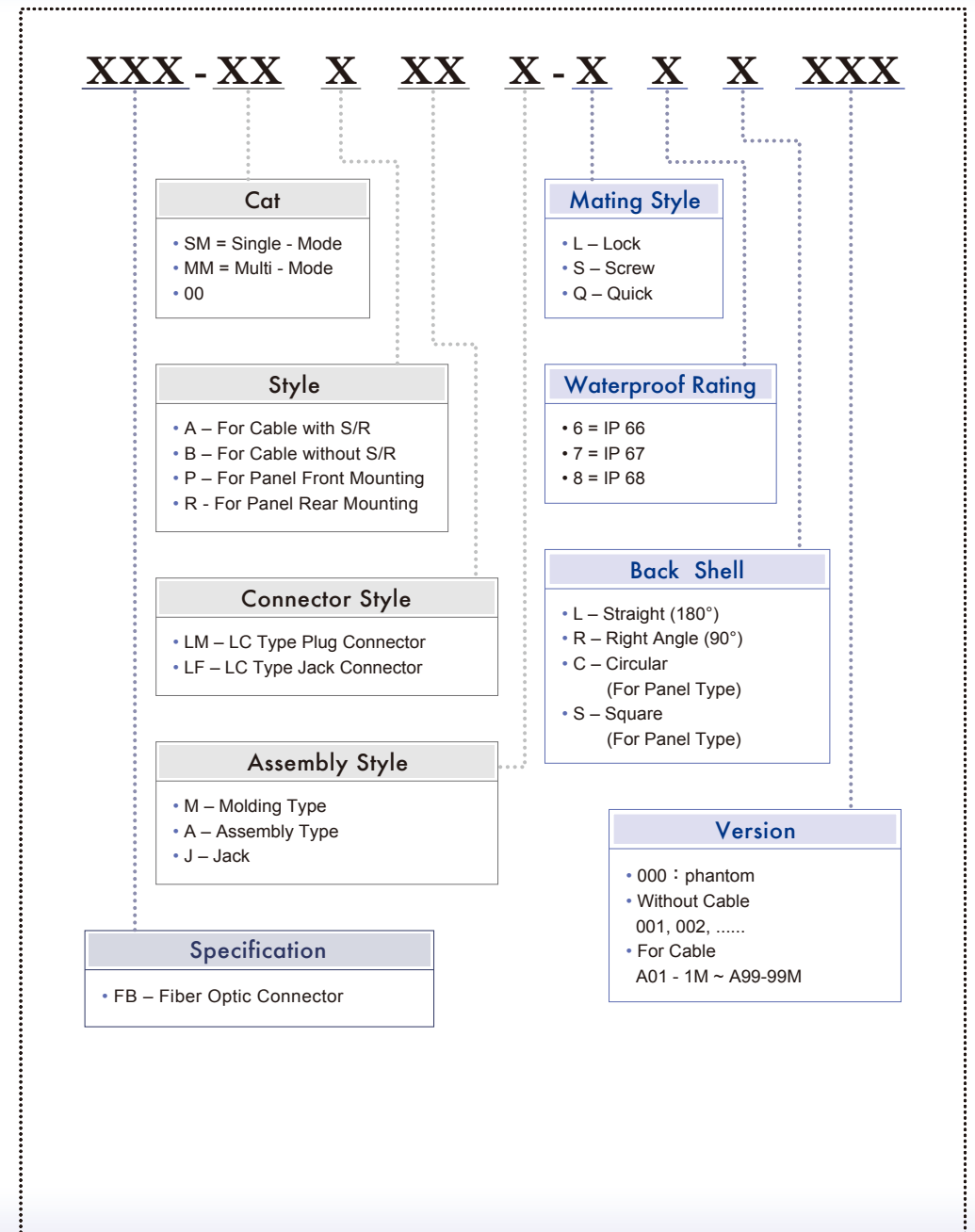
**DVI-I Dual Link (DID)**





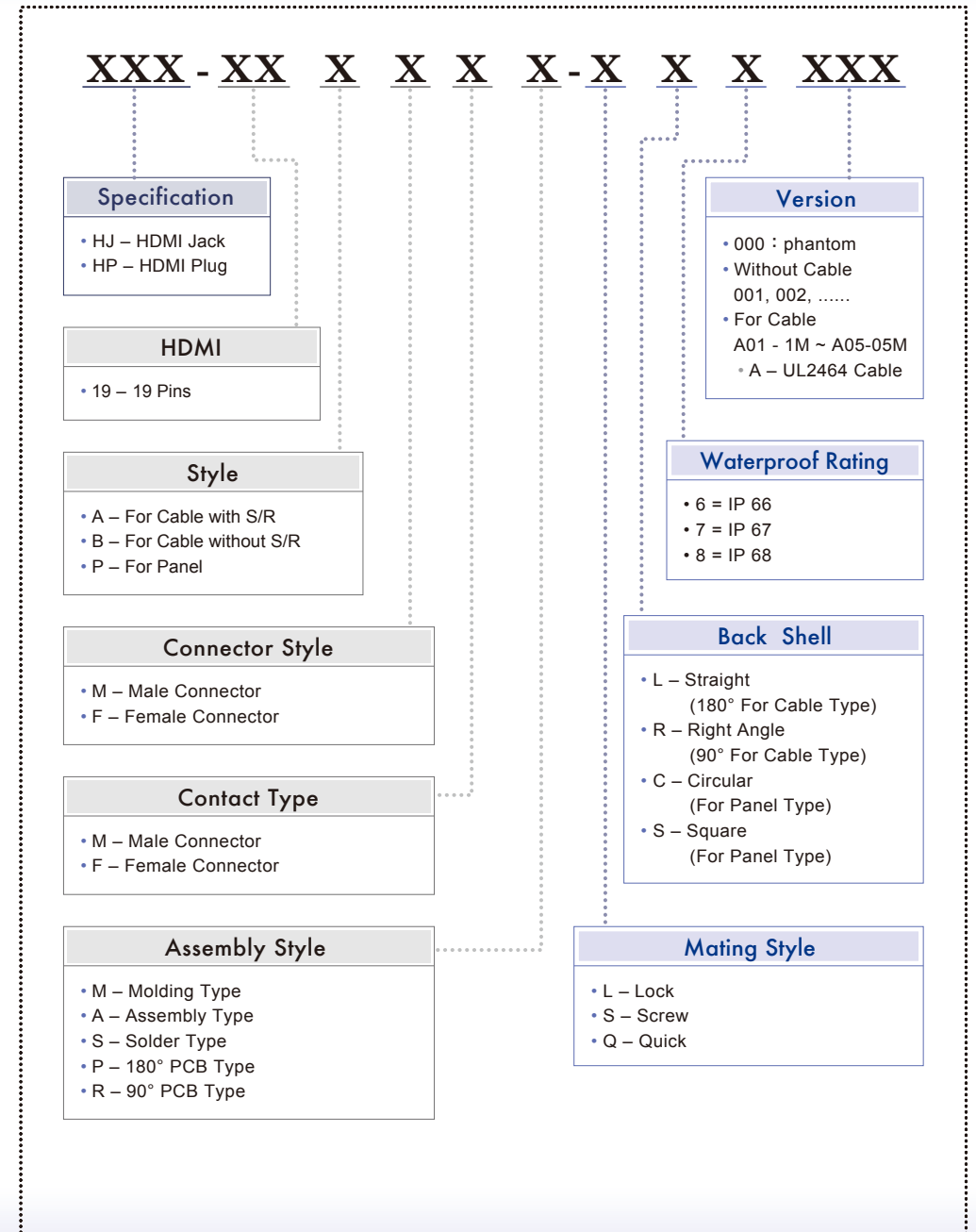
29 Contacts

Panel (Chassis) Mount		Mating Parts	
CONNECTOR	P/N	CONNECTOR	P/N
	<b>LTWDDS-19PFFS-SL8001</b> <b>LTWDDD-25PFFS-SL8001</b>	 With SR	<b>LTWDDS-19AMMM-SL7AXX</b> <b>LTWDDD-25AMMM-SL7AXX</b>
	<b>FEATURES:</b> <ul style="list-style-type: none"> <li>• DVI-D Single 19 Contacts or DVI-D Dual 25 Contacts</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>	 With SR	
		<b>FEATURES:</b> <ul style="list-style-type: none"> <li>• DVI-D Single 19 Contacts or DVI-D Dual 25 Contacts</li> <li>• Screw Type</li> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• IP 67</li> </ul>	

Panel (Chassis) Mount		Mating Parts	
CONNECTOR	P/N	CONNECTOR	P/N
	LTWDIS-23PFFS-SL8001 LTWDID-29PFFS-SL8001  <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• DVI-I Single 23 Contacts or DVI-I Dual 29 Contacts</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>	 LTWDIS-23AMMM-SL7AXX LTWDID-29AMMM-SL7AXX  <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• DVI-I Single 23 Contacts or DVI-I Single 29 Contacts</li> <li>• Screw Type</li> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• IP 67</li> </ul>	



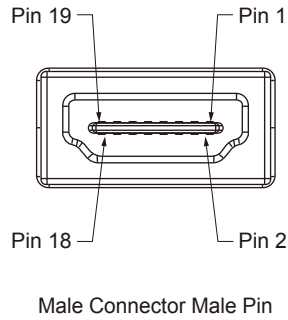
Panel (Chassis) Mount		Mating Parts	
CONNECTOR	P/N	CONNECTOR	P/N
	<b>LTWFB-00RLFJ-LC7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• LC Type Jack Connector</li> <li>• Rear Mounting</li> <li>• Lock Type</li> <li>• Circular Flange</li> <li>• IP 67</li> </ul>		<b>LTWFB-00BLMA-LL7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• LC Type Plug Connector</li> <li>• Assembly Type</li> <li>• 180° Lock Type</li> <li>• IP 67</li> </ul>



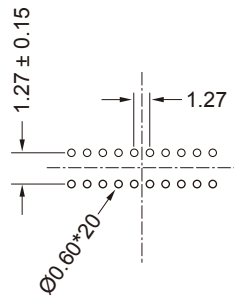
PIN ARRANGEMENTS/PCB LAYOUT



19 Contacts

Male



PCB



Panel (Chassis) Mount		Mating Parts	
CONNECTOR	P/N	CONNECTOR	P/N
	<p><b>LTWHJ-19PFFR-QS7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Latch Type</li> <li>• 90° PCB</li> <li>• IP 67</li> </ul>		<p><b>LTWHP-19AMMM-QL7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• 180° In-line Molded Type</li> <li>• With SR</li> <li>• Maximum Cable Length 5M (Cable Specification HDMI 1.3)</li> <li>• IP 67</li> </ul>

**XXX - XX X X X X - X X X XXX**

**USB**

- AA – 1394
- BB – 1394B

**Style**

- A – For Cable with S/R
- B – For Cable without S/R
- P – For Panel

**Connector Style**

- M – Male Connector
- F – Female Connector

**Contact Type**

- M – Male
- F – Female

**Assembly Style**

- M – Molding Type
- A – Assembly Type
- S – Solder Type
- P – 180° PCB Type
- R – 90° PCB Type

**Specification**

- 13 – 1394 Connector
- N13 – Mini IEEE1394 Connector

**Waterproof Rating**

- 6 = IP 66
- 7 = IP 67
- 8 = IP 68

**Back Shell**

- L – Straight (180° For Cable Type)
- R – Right Angle (90° For Cable Type)
- C – Circular (For Panel Type)

**Mating Style**








- L – Lock
- S – Screw
- Q – Quick

**Version**

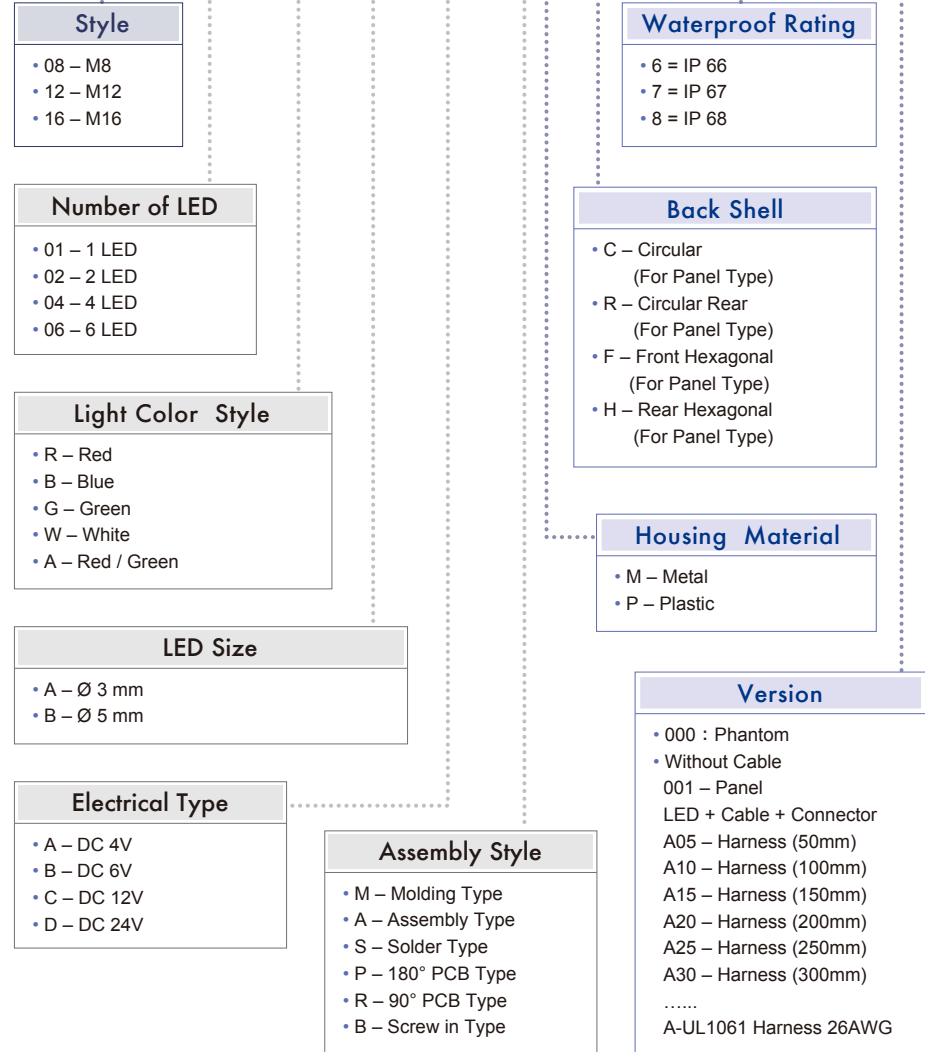
- 000 : Phantom
- Without Cable
  - 001-Panel
  - 002-Panel Harness (50mm)
- For Cable
  - A01 - 1M ~ A05 - 05M
  - A-1394 Cable
  - B-1394B Cable

**CONTACT PIN ARRANGEMENT**

No.	Specifications	Standard Value
01. Identifications		IEEE 1394 Connector
02. Description		Panel Mount, Molded with Cable and Field Installable
03. Current Rating		0.5A
04. Material	Contacts: Copper Alloy, Gold Plated Connector Body: PBT UL94V-0	
05. Temperature Range		-20°C to +80°C
06. Waterproof Rating		IP67, IP68
07. Contact Resistance		≤30mΩ Max
08. Insulation Resistance		≥100mΩ at DC 500V
09. Breakdown Voltage		≥AC 500V / 1 Minute
10. Standard Cable Length (for Molded Cable)		1, 2, 4M (IEEE1394 Cable)

Panel (Chassis) Mount		Mating Parts of 1~3		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
	<b>1</b> LTW13-AAPMFP-SC8001 <b>FEATURES:</b> • Male Connector • PCB 180° • P68			 Waterproof Cover with Chain
	<b>2</b> LTW13-AAAMFM-SL7AXX <b>FEATURES:</b> • Male Connector • Molded with Cable • With SR • Cable Length 1 to 4 Meters • IP 67		LTW13-AABFMM-SL7AX <b>FEATURES:</b> • Female Connector • Molded with Cable • Without SR • IP 67 • Cable Length 1 to 4 Meters	 Waterproof Cover with Rubber Lead
	<b>3</b> LTW13-AABMFA-SL8001 <b>FEATURES:</b> • Male Connector • Field Installable • Without Cable • IP 68			 Waterproof Cover with Fish Line

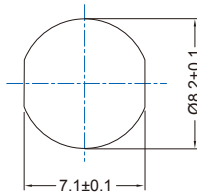
**LXX - XX X X X X - X X X XXX**



SPECIFICATIONS

No.	Specifications	Standard Value
01. Identifications	Plastic LED Metal LED	
02. Description	Panel Mount	
03. LED Size	Plastic LED: Ø3mm Metal LED: Ø3mm, Ø5mm	
04. Light Color	Red, Blue, Green, White, Yellow, Red / Green	
05. Mateial	Metal: Brass, Nickel Plated Plastic: PC + ABS	
06. Waterproof Rating	IP67	
07. Operating Temperature	-40°C to +80°C	
08. Breakdown Voltage	4V	

PANEL CUT-OUT



Panel (Chassis) Plastic		Panel (Chassis) Metal	
CONNECTOR	P/N	CONNECTOR	P/N
	<b>LTWL08-01RAAS-PR7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Plastic Body</li> <li>• Red Light Color</li> <li>• Ø3</li> <li>• IP 67</li> </ul>		<b>LTWL08-01R ΔAS-MR7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Metal Body</li> <li>• Red</li> <li>• Δ Available in Ø3 and Ø5</li> <li>• IP 67</li> </ul>
	<b>LTWL08-01BAAS-PR7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Plastic Body</li> <li>• Blue Light Color</li> <li>• Ø3</li> <li>• IP 67</li> </ul>		<b>LTWL08-01B ΔAS-MR7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Metal Body</li> <li>• Blue Light Color</li> <li>• Δ Available in Ø3 and Ø5</li> <li>• IP 67</li> </ul>
	<b>LTWL08-01GAAS-PR7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Plastic Body</li> <li>• Green Light Color</li> <li>• Ø3</li> <li>• IP 67</li> </ul>		<b>LTWL08-01G ΔAS-MR7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Metal Body</li> <li>• Green Light Color</li> <li>• Δ Available in Ø3 and Ø5</li> <li>• IP 67</li> </ul>
	<b>LTWL08-01WAAS-PR7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Plastic Body</li> <li>• White Light Color</li> <li>• Ø3</li> <li>• IP 67</li> </ul>		<b>LTWL08-01W ΔAS-MR7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Metal Body</li> <li>• White Light Color</li> <li>• Δ Available in Ø3 and Ø5</li> <li>• IP 67</li> </ul>
	<b>LTWL08-01YAAS-PR7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Plastic Body</li> <li>• Yellow Light Color</li> <li>• Ø3</li> <li>• IP 67</li> </ul>		<b>LTWL08-01Y ΔAS-MR7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Metal Body</li> <li>• Yellow Light Color</li> <li>• Δ Available in Ø3 and Ø5</li> <li>• IP 67</li> </ul>
	<b>LTWL08-01AAAS-PR7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Plastic Body</li> <li>• Red / Green Light Color</li> <li>• Ø3</li> <li>• IP 67</li> </ul>		<b>LTWL08-01A ΔAS-MR7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Metal Body</li> <li>• Red / Green Light Color</li> <li>• Δ Available in Ø3 and Ø5</li> <li>• IP 67</li> </ul>

**XXX - XX X X X X - X X X XXX**

**Number of Contacts**

- 02, 03, ..... Pin

**Style**

- A – For Cable with S/R
- B – For Cable without S/R
- P – For Panel Front Mounting
- R – For Panel Rear Mounting

**Connector Style**

- M – Male Connector
- F – Female Connector

**Contact Type**

- M - Male
- F - Female
- C - Combo

**Specification**

- PAA – 5/8" Size Current Rating 1A (Circular)
- PAB – 5/8" Size Current Rating 2A
- PAC – 5/8" Size Current Rating 3A
- PBA – 5/8" Size Current Rating 1A
- PBB – 5/8" Size Current Rating 2A
- PBC – 5/8" Size Current Rating 3A
- PCA – 5/8" Size Current Rating 1A
- PCB – 5/8" Size Current Rating 2A
- PCC – 5/8" Size Current Rating 3A
- PDA – A\*B Size Current Rating 1A
- PDB – C\*D Size Current Rating 2A
- PDC – E\*F Size Current Rating 3A

**Mating Style**

- K – Lock (Short)
- L – Lock (Long)
- S – Screw
- Q – Quick

**Waterproof Rating**

- 6 = IP 66
- 7 = IP 67
- 8 = IP 68

**Back Shell**

- L – Straight (180° For Cable Type)
- R – Right Angle (90° For Cable Type)
- C – Circular (For Panel Type)
- S – Square (For Panel Type)

**Version**

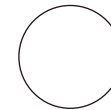
- 000 : Phantom
- Without Cable
- 001, 002,.....
- For Cable
- A01 - 1M ~ A99 - 99M
- A - UL2464 Cable

**Assembly Style**

- M – Molding Type
- A – Assembly Type
- S – Solder Type
- P – 180° PCB Type
- R – 90° PCB Type
- B – Screw in Type

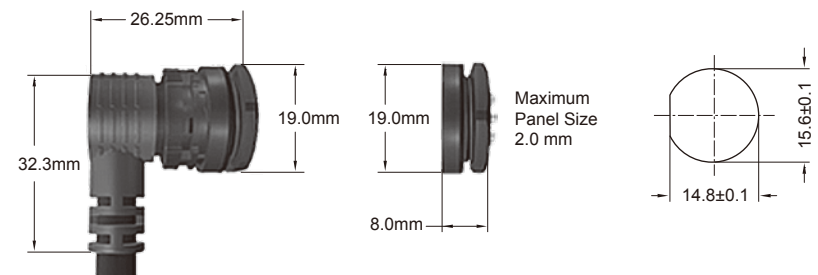
**CONTACT PIN ARRANGEMENTS**




1A



Female Connector Female Pin  
Male Connector Male Pin

**PANEL CUT-OUT**



Panel (Chassis) Mount		Mating Parts of 1 & 2	
CONNECTOR	P/N	CONNECTOR	P/N
 <p><b>1</b></p> <p><b>LTWPAA-△RFFS-LC7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Female Connector</li> <li>• Lock Type, Sloder Contacts</li> <li>• Rear Mounting</li> <li>• Connector Rating 1A</li> <li>• IP 67</li> <li>• △ Available in 8 or 10 Pins</li> </ul>		 <p>Short Nut</p> <p><b>LTWPAA-△AMMM-K7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Male Connector</li> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• Cable Length 1~99 Meters</li> <li>• Cable Type UL2464 PVC Jacket</li> <li>• IP 67</li> <li>• △ Available in 8 or 10 Pins</li> </ul>	
 <p><b>2</b></p> <p><b>LTWPAA-△RFFP-LC7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Female Connector</li> <li>• Lock Type, PCB Contacts</li> <li>• Rear Mounting</li> <li>• PCB 180°</li> <li>• IP 67</li> <li>• △ Available in 8 or 10 Pins</li> </ul>		 <p>Long Nut</p> <p><b>LTWPAA-△AMMM-LR7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Male Connector, Lock Type</li> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• Cable Length 1~99 Meters</li> <li>• Cable Type UL2464 PVC Jacket</li> <li>• IP 67</li> <li>• △ Available in 8 or 10 Pins</li> </ul>	

**XXX - XX X X X X - X X X XXX**

**Specification**

- MID=Mini Din Connector

**Numbe of Contacts**

- 03 , 04, 05, 06, 07, 08 ..... Pin

**Style**

- A – For Cable with S/R
- B – For Cable without S/R
- P – For Panel

**Connector Style**

- M – Male Connector
- F – Female Connector

**Contact Type**

- M – Male
- F – Female

**Assembly Style**

- M – Molding Type
- A – Assembly Type
- S – Solder Type
- P – PCB Type Unmated Waterproof (180°)
- R – PCB Type Unmated Waterproof (90°)

**Waterproof Rating**

- 5 = IP65
- 6 = IP 66
- 7 = IP 67
- 8 = IP 68

**Back Shell**

- L – Straight (180° For Cable Type)
- R – Right Angle (90° For Cable Type)
- C – Circular Straight (For Panel Type)

**Mating Style**

- L – Lock
- S – Screw
- Q – Quick

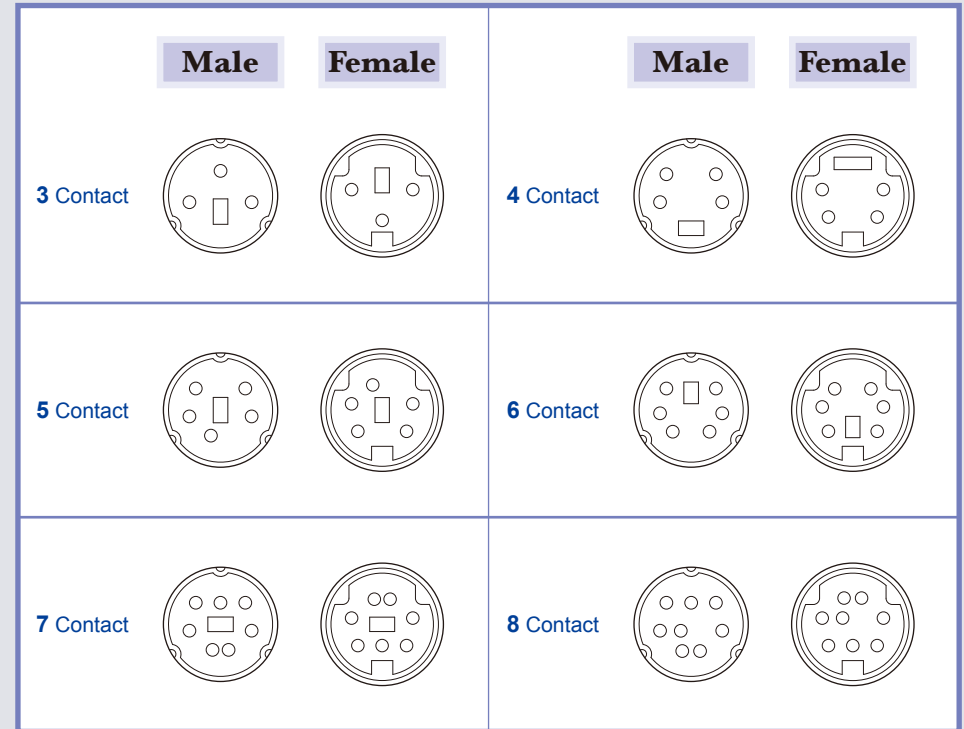
**Version**

- 000 : Phantom
- Without Cable 001, 002,.....
- For Cable A01 - 1M ~ A99 - 99M
- A – UL2464 26AWG

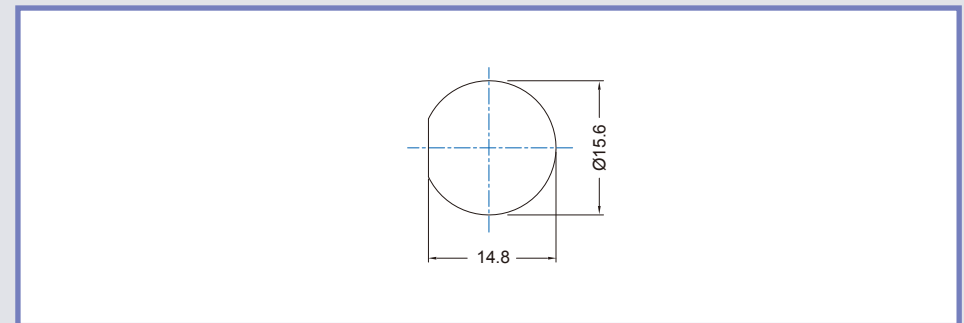
SPECIFICATIONS

No.	Specifications	Standard Value
01. Identifications		Mini Din
02. Description		Panel Mount, Molded with Cable
03. Current Rating / Pin Arrangements		1A : 3 to 8
04. Material		Contacts: Copper Alloy, Gold / TIN Plated Connector Body: PBT
05. Temperature Range		-20°C to + 80°C
06. Waterproof Rating		IP66, IP67
07. Contact Resistance		≤20mΩ Max
08. Insulation Resistance		≥50mΩ at DC 250V
09. Breakdown Voltage		≥AC 250V / 1 Minute
10. Standard Cable Length (for Molded Cable)		1-99M (Standard Cable: UL2464 PVC Jacket)

CONTACT PIN ARRANGEMENT



PANEL CUT-OUT



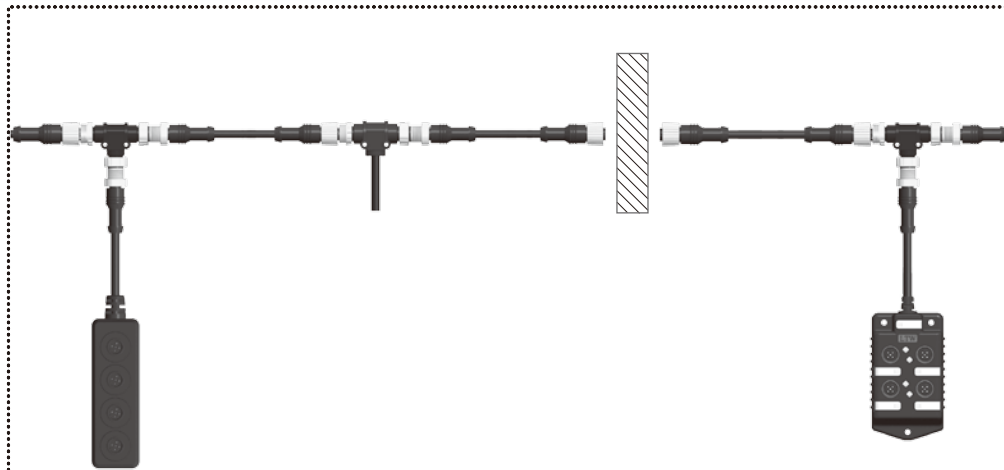
Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>1</b></p>	<p><b>LTWMID-△PMFS-SC7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• IP 67</li> <li>• △1A: 3 to 8 Pins</li> </ul>	 <p>LTWMID-△AFMM-SL△AXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• Scerw Type</li> <li>• △1A: 3 to 8 Pins</li> <li>• △IP 67</li> </ul>		 <p>Waterproof Cover with Chain</p>
 <p><b>2</b></p>	<p><b>LTWMID-△AMFM-△L△AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• △1A: 3 to 8 Pins</li> <li>• △Screw or Quick Type</li> <li>• △IP 66 (Quick) or IP67 (Scerw)</li> </ul>	 <p>LTWMID-△AFMM-△L△AXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• △1A: 3 to 8</li> <li>• △Quick or Screw Type</li> <li>• △IP 66</li> </ul>		



• NMEA 2000 Mini Cable and Connector •



• NMEA 2000 Micro Cable and Connector •



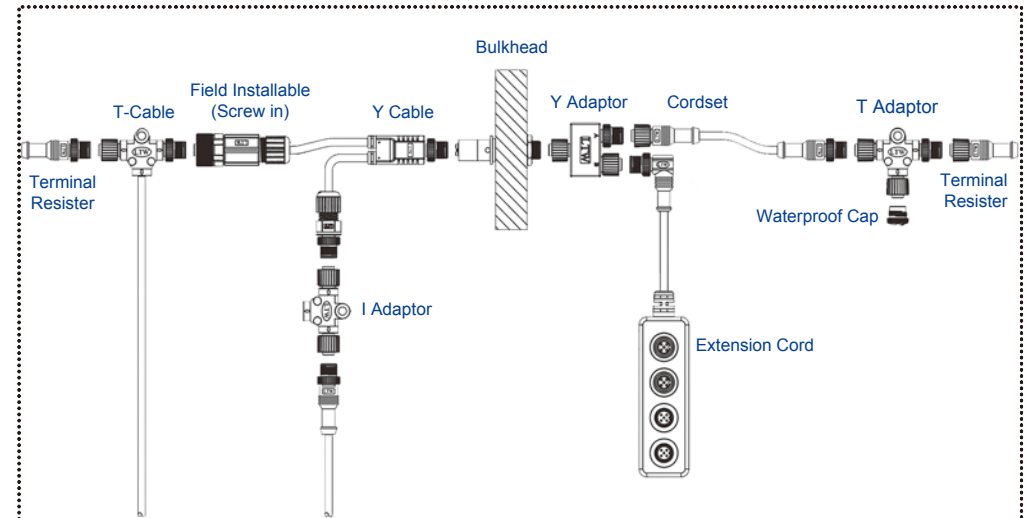
**Features: Marine Network Cable**

- ▶ Provides easy installation for fast and reliable connection
- ▶ Ensures high performance and signaling
- ▶ Designed for the marine environment
- ▶ Various options of connector type is available to support all system requirements

**About NMEA 2000**

Amphenol LTW Technology expands its coverage targeting the marine industry that features the NMEA 2000 standard.

The NMEA 2000 standard contains the requirements of a serial data communications network to inter-connect marine electronic equipment on vessels. It is multi-master and self-configuring, and there is no central network controller. Equipment designed to this standard will have the ability to share data, including commands and status with other compatible equipment over a single channel.



From the finest products supporting numerous connector applications worldwide, Amphenol LTW introduces the advanced and most comprehensive connector and cabling solution for the Marine Industry.

We made it possible to simplify your system needs and promote convenience with a cost-effective offer and wide array of waterproof connector choices featuring Amphenol LTW Marine Network Cable Guide.

This guide contains the requirements of a serial data communications network to inter-connect marine electronic equipment on vessels. Equipment designed to this system will have the ability to share data, including commands and status with other compatible equipment over a single channel. It also introduces Micro series connector and accessories available in plastic and metal versions specially designed to fit marine requirements.

All of these products are made with quality, enhanced performance and highly reliable. Discover this and more as we introduce you Amphenol LTW Marine Network Cable Guide.

**XXX - XX X X X X - X X X XXX**

**Number of Contacts**

- 02, 03, ..... Pin

**Style**

- A – For Cable with S/R
- B – For Cable without S/R
- P – For Panel

**Specification**

- MN – Mini Size Current Rating 8A (NMEA Non Approval)
- MC – Micro Size Current Rating 4A (NMEA Non Approval)
- MNP – Mini Plastic Size Current Rating 8A (NMEA Non Approval)
- MCP – Micro Plastic Size Current Rating 4A (NMEA Non Approval)
- MNL – Mini Size LED Current Rating 8A (NMEA Non Approval)
- UMN – Mini Size Current Rating 8A (NMEA 30u"Approval Product)
- UMC – Micro Size Current Rating 4A (NMEA 30u"Approval Product)
- UMCP – Micro Plastic Size Current Rating 4A (NMEA 30u"Approval Product)

**Connector Style**

- M – Male Connector
- F – Female Connector

**Contact Type**

- M – Male
- F – Female

**Assemble Style**

- M – Molding Type
- A – Assembly Type (Solder)
- B – Assembly Type (Screw type)
- P – For Panel
- T – Termination Resistor

**Back Shell**

- L – Straight (180° For Cable Type)
- R – Right Angle (90° For Cable Type)
- C – Circular (For Panel Type)
- F – Front Hexagonal (For Panel Type)

**Waterproof Rating**

- 5 = IP 65      • 6 = IP 66
- 7 = IP 67      • 8 = IP 68

**Mating Style**

- L – Lock
- S – Screw
- Q – Quick

**Version**

- 000 : Phantom without Cable
- Without Cable 001, 002, .....
- For Cable A01 - 1M ~ A99 - 99M

**NMEA Non Approval**

- A – Cable 22+24+B PVC for NMEA Micro
- B – Cable 18+22+B PVC for NMEA Micro
- C – Cable 16+18+B PVC for NMEA Mini
- D – Cable 16AWG 4C PVC for NMEA Mini

**NMEA Approval**

- A – Device Net Cable 22+24+B PVC for NMEA Micro Approval Product
- C – Device Net Cable 15+18+B PVC for NMEA Mini Approval Product

**XX - XX XX XX - XXX - X X XXX**

**Specification**

- AA – Mini Size Adaptor
- BA – Standard Size Adaptor
- RJ – RJ Unshield Connector Adaptor
- RS – RJ Shielded Connector Adaptor
- UB – USB Connector Adaptor
- 13 – 1394 Connector Adaptor
- TN – TNC Connector Adaptor
- SM – M8 Sensor Connector Adaptor
- SS – M12 Sensor Connector Adaptor
- PS – Plastic M12 Sensor Connector Adaptor
- SB – M12 Sensor B-Coded Connector Adaptor
- PB – Plastic M12 Sensor D-Coded Connector Adaptor
- SD – M12 Sensor B-Coded Connector Adaptor
- PD – Plastic M12 Sensor D-Coded Connector Adaptor
- SI – M12 Sensor I-Style Connector Adaptor
- PI – Plastic M12 Sensor I-Style Connector Adaptor
- MN – Mini Adaptor (NMEA Non Approval)
- MC – Micro Adaptor (NMEA Non Approval)
- NC – Mini- Micro Adaptor (NMEA Non Approval)
- PN – Plastic Mini Adaptor (NMEA Non Approval)
- PC – Plastic Micro Adaptor (NMEA Non Approval)
- PO – Plastic Mini - Micro Adaptor (NMEA Non Approval)
- SL – Solar Adaptor
- GA – I Adaptor
- UMN – Mini Adaptor (NMEA 30u"Approval Product)
- UMC – Micro Adaptor (NMEA 30u"Approval Product)
- UNC – Mini - Micro Adaptor (NMEA 30u"Approval Product)
- UPC – Plastic Micro Adaptor (NMEA 30u"Approval Product)

**No. of Contacts for End 1, 2, 3**

- 00, 00, 00 - RJ, USB, TNC, 1394, Solar
- 00, XX, XX - I Adaptor (Circular and Sensor Connector Only)
- XX, XX, XX - T, Y Adaptor (Circular and Sensor Connector Only)
- XX=
  - 02 ~ 03 – for Mini Size (5A)
  - 04 ~ 06 – for Mini Size (2A)
  - 02 ~ 08 – for Standard Size (5A)
  - 10 ~ 12 – for Standard Size (2A)
  - 02 ~ 04 – for Standard Size (10A)
  - 03 ~ 05 – for Sensor Connector A, B, D-Coded (5A)
  - 06 ~ 08 – for Sensor Connector A, B, D-Coded (2A)
  - 04 ~ 05 – for Sensor Connector I-Style
  - 05 – for NMEA Connector

**Mating Style**

- L – Lock
- S – Screw
- C – Combo
- Q – Quick

**Style**

- I – I adaptor
- T – T adaptor
- Y – Y adaptor
- C – Double-Connector with Cable
- B – BulkHead
- E – Elbow

**Version**

- Without Cable 001, 002, .....
- For Cable A01 - 1M ~ A99 - 99M
- NMEA Non Approval**
  - A – Cable 22+24+B PVC For NMEA Micro
  - B – Cable 18+22+B PVC For NMEA Micro
  - C – Cable 16+18+B PVC For NMEA Mini
- NMEA Approval**
  - A – Device Net cable 22+24+B PVC for NMEA Micro Approval Product
  - C – Device Net cable 15+18+B PVC for NMEA Mini Approval Product

**Connector + Pin Gender for End 1,2,3**

- 0, X, X – I Adaptor
- X, X, X – T, Y Adaptor
- X=
  - M – Male + Male
  - F – Female + Female
  - H – Male + Female
  - B – Female + Male
- RJ=
  - MM – Plug
  - FF – Jack

**X - XXXXXX - XXXXXX - X XXX**

**Specification**

- A – Mini Size Adaptor
- B – Standard Size Adaptor
- S – M12 Sensor Adaptor
- M – M8 Sensor Adaptor
- N – NMEA2000 Mini-C Adaptor (NMEA Non Approval)
- E – NMEA2000 Micro-C Adaptor (NMEA 30u"Approval Product)
- U – NMEA2000 Mini-C Adaptor (NMEA 30u"Approval Product)

**Mating Style**

- L – Lock
- S – Screw

**Version**

- 000 : Phantom Without Cable
- Without Cable 001, 002, .....
- For Cable A01 – 1M ~ A99 – 99M
- NMEA Non Approval**
  - A – Cable 22+24+B PVC for NMEA Micro
  - B – Cable 18+22+B PVC for NMEA Micro
  - C – Cable 16+18+B PVC for NMEA Mini
- NMEA Approval**
  - A – Device Net cable 22+24+B PVC for NMEA Micro Approval Product
  - C – Device Net cable 15+18+B PVC for NMEA Mini Approval Product

**No. of Contacts for Connector 1, 2, 3, 4, 5, 6**

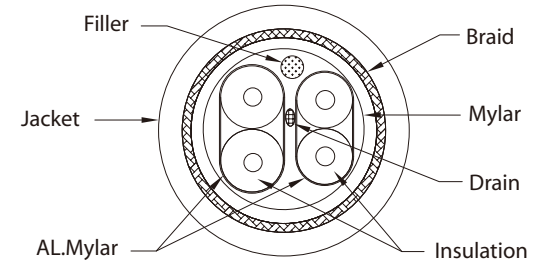
- 1, 2, 3, 4, 0, 0–All Conn.  
5, 6–Mini Size, Sensor M12, M8 Connector
- 2~3 – for Mini Size (5A)
  - 4~6 – for Mini Size (2A)
  - 2~8 – for Standard Size (5A)
  - 2~4 – for Standard Size (10A)
  - 3~5 – for Sensor Conn. A, B, D-Coded (5A)
  - 6~8 – for Sensor Conn. A, B, D-Coded (2A)
  - 4~5 – for Sensor Conn. I-Style
  - XXXXXX - Connector 1, 2, 3, 4, 5 and 6

**Connector + Contacts Gender**

- 1, 2, 3, 4, 0, 0–All Conn.  
1, 2, 3, 4, 5, 6–Connector
- M – Male + Male
  - F – Female + Female
  - H – Male + Female
  - B – Female + Male

**SPECIFICATIONS**

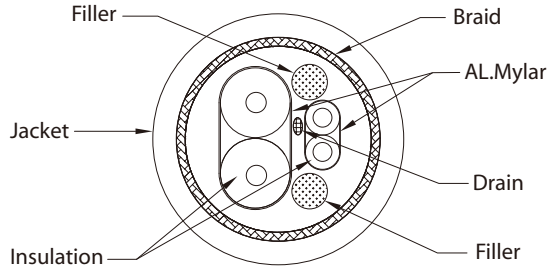
(24#+1P+AL) + (22+1P+AL) + Drain + AL.Mylar + Braid



No.	Specifications	Standard Value
01. Rating Temperature		75°C
02. Voltage		600V
03. Operating Temperature		-20°C to +75°C
04. Conductor		AWG: 22 AWG, 24 AWG OD(Ref): 0.80mm, 0.64mm
05. Insulation Material		PVC: OD 1.8 ± 0.1mm FPE: OD 1.9 ± 0.1mm
06. Drain		22AWG
07. Jacket		Material: PVC Color: Gray OD: Ø7.1 ± 0.2mm
08. Color Code:		Insulation 24WAG: Blue, White Insulation 22WAG: Red, Black
09. Certicated		UL E34972

SPECIFICATIONS

(18#+1P+AL) + (22+1P+AL) + Drain + AL.Mylar + Braid



No.	Specifications	Standard Value
01.	Rating Temperature	75°C
02.	Voltage	600V
03.	Operating Temperature	-20°C to +75°C
04.	Conductor	AWG: 18 AWG, 15 AWG OD(Ref): 1.27mm, 1.60mm
05.	Insulation Material	PVC: OD 3.8 ± 0.1mm FPE: OD 2.7 ± 0.1mm
06.	Drain	18AWG
07.	Jacket	Material: PVC Color: Gray OD: Ø12.2 ± 0.2mm
08.	Color Code:	Insulation 24WAG: Blue, White Insulation 22WAG: Red, Black
09.	Certicated	UL E34972

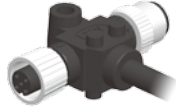



Cable Assembly		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
			LTWUMC-000505-0MF-CSAXX <b>FEATURES:</b> • Double Connector with Cable • Screw Type • IP 68	
			LTWUMC-050505-FMF-TS001 <b>FEATURES:</b> • T Adaptor • Screw Type • IP 68	
			LTWUMC-05BFFB-SL7001 <b>FEATURES:</b> • Molded with Cable • Screw Type • IP 67	
	LTWUMC-05BMMM-SL8AXX <b>FEATURES:</b> • Molded with Cable • Screw Type • IP 68 when mated		LTWUMC-000505-0FM-BS001 <b>FEATURES:</b> • Bulkhead • Screw Type • IP 67	
			LTWE-555500-FFFM00-S001 <b>FEATURES:</b> • T Adaptor (2 Way Tee) • Screw Type • IP 68	
			LTWE-555555-FFFFFM-S001 <b>FEATURES:</b> • T Adaptor(4 Way Tee) • Screw Type • IP 68	
			WE-555500-FFFF00-SAXX <b>FEATURES:</b> • Extension Cord • Screw Type • IP 68	

Cable Assembly		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>LTWUMN-05AMMM-SL8CXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Molded with Cable</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>		 <p><b>LTWUMN-000505-0MF-CSCXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Double Connector with Cable</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>		
		 <p><b>LTWUMN-050505-FMF-TS001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• T Adaptor</li> <li>• Screw Type</li> <li>• IP 67</li> </ul>		
		 <p><b>LTWUNC-050505-FMF-TS001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• T Adaptor</li> <li>• Screw Type</li> <li>• IP 67</li> </ul>		
		 <p><b>LTWUMN-000505-0FM-BS001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Bulkhead</li> <li>• Screw Type</li> <li>• IP 67</li> </ul>		
		 <p><b>LTWUMN-05BFFB-SL7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Molded with Cable</li> <li>• Screw Type</li> <li>• IP 67</li> </ul>		
		 <p><b>LTWU-455000-MFF000-S001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• PowerTap Box</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>		

Cable Assembly		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>LTWUMC-000505-0MF-CSAXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Double Connector with Cable</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>		 <p><b>LTWUMC-05BMMM-SL8AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Molded with Cable</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>		
		 <p><b>LTWUMC-000505-0MF-CSAXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Double Connector with Cable</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>		
		 <p><b>LTWUMC-050505-FMF-TS001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• T Adaptor</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>		
		 <p><b>LTWUMC-05BFFB-SL7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Molded with Cable</li> <li>• Screw Type</li> <li>• IP 67</li> </ul>		
		 <p><b>LTWUMC-05BMMB-SL7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Molded with Cable</li> <li>• Screw Type</li> <li>• IP 67</li> </ul>		
		 <p><b>LTWUMC-000505-0FM-BS001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Bulkhead</li> <li>• Screw Type</li> <li>• IP 67</li> </ul>		
		 <p><b>LTWE-555500-FFFM00-S001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• T Adaptor (2 Way Tee)</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>		

Cable Assembly		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>LTWUMC-000505-0MF-CSAXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Double Connector with Cable</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>		 <p><b>LTWE-555555-FFFFFM-S001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• T Adaptor (4 Way Tee)</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>		
		 <p><b>LTWE-555500-FFFF00-SAXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Extension Cord</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>		
		 <p><b>LTWUMC-05BFFT-SL8001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Termination Resister</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>		
		 <p><b>LTWUMC-05BMMT-SL8001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Termination Resister</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>		
 <p><b>LTWUMN-000505-0MF-CSCXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Double Connector with Cable</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>		 <p><b>LTWUMN-05AMMM-SL8CXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Molded with Cable</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>		
		 <p><b>LTWUMN-000505-0MF-CSCXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Double Connector with Cable</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>		
		 <p><b>LTWUMN-050505-FMF-TS001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• T Adaptor</li> <li>• Screw Type</li> <li>• IP 67</li> </ul>		

Cable Assembly		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>LTWUMN-000505-0MF-CSCXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Double Connector with Cable</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>		 <p><b>LTWUNC-050505-FMF-TS001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• T Adaptor</li> <li>• Screw Type</li> <li>• IP 67</li> </ul>		
		 <p><b>LTWUMN-000505-0FM-BS001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Bulkhead</li> <li>• Screw Type</li> <li>• IP 67</li> </ul>		
		 <p><b>LTWUMN-05BMMB-SL7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Molded with Cable</li> <li>• Screw Type</li> <li>• IP 67</li> </ul>		
		 <p><b>LTWUMN-05BFFB-SL7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Molded with Cable</li> <li>• Screw Type</li> <li>• IP 67</li> </ul>		
 <p><b>LTWU-455000-MFF000-S001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• PowerTap Box</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>		 <p><b>LTWUMN-05AFFT-SL8001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Termination Resister</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>		
		 <p><b>LTWUMN-05AMMT-SL8001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Termination Resister</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>		

T Cable Assembly		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
	<b>LTWUMC-050500-FM0-TSAXX</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• T Adaptor, T Cable</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>		<b>LTWE-555500-FFFF00-SAXX</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Extension Cord</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>	
			<b>LTWUMC-05BFFT-SL8001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Termination Resistor</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>	
			<b>LTWUMC-05BMMT-SL8001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Termination Resistor</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>	

Bulkhead		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
	<b>LTWUMC-000505-0FM-BS001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Bulkhead</li> <li>• Screw Type</li> <li>• IP 67</li> </ul>		<b>LTWUMC-05BMMM-SL8AXX</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Molded with Cable</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>	
			<b>LTWUMC-000505-0MF-CSAXX</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Double Connector with Cable</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>	
			<b>LTWUMC-05BFFB-SL7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Molded with Cable</li> <li>• Screw Type</li> <li>• IP 67</li> </ul>	
			<b>LTWUMC-05BMMB-SL7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Molded with Cable</li> <li>• Screw Type</li> <li>• IP 67</li> </ul>	
	<b>LTWUMN-000505-0FM-BS001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Bulkhead</li> <li>• Screw Type</li> <li>• IP 67</li> </ul>		<b>LTWUMN-05AMMM-SL8CXX</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Molded with Cable</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>	
			<b>LTWUMN-000505-0MF-CSCXX</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Double Connector with Cable</li> <li>• Screw Type</li> <li>• IP 68</li> </ul>	
			<b>LTWUMN-05BMMM-SL7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Molded with Cable</li> <li>• Screw Type</li> <li>• IP 67</li> </ul>	
			<b>LTWUMN-05BFFB-SL7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Molded with Cable</li> <li>• Screw Type</li> <li>• IP 67</li> </ul>	

**XXX - XX X X X X - X X X XXX**

**Number of Contacts**

**Phone Jack**

- 01 – Ø2.5
- 02 – Ø3.5

**DC Power Jack**

- 11 – Ø2.35 × Ø0.7
- 12 – Ø3.0 × Ø1.1
- 13 – Ø1.0
- 14 – Ø3.5

**Style**

- A – For Cable with S/R
- B – For Cable without S/R
- P – For Panel Front Mounting
- R – For Panel Rear Mounting

**Connector Style**

- M – Male Connector
- F – Female Connector

**Contact Type**

- M – Male
- F – Female

**Specification**

- DCS – Stereo Phone Jack Connector
- DCP – DC Power Jack Connector

**Waterproof Rating**

- 6 = IP 66
- 7 = IP 67

**Version**

- 000 : Phantom
- Without Cable  
001, 002,.....
- For Cable  
A01 - 1M ~ A99 - 99M
- A - UL2464 Cable

**Back Shell**

- L – Straight  
(180° For Cable Type)
- R – Right Angle  
(90° For Cable Type)
- C – Circular  
(For Panel Type)

**Mating Style**





- Q – Quick

**Assembly Style**

- M – Molding Type
- A – Assembly Type
- S – Solder Type
- P – PCB Type (180°)
- R – PCB Type (90°)

**SPECIFICATIONS**

No.	Specifications	Standard Value
01. Identifications		DCP: Power Jack DCM: Mono Phone Jack DCS: Stereo Phone Jack
02. Description		Panel Mount, Molded with Cable
03. Plug Dimension		Power Jack: Ø3.5mm Phone Jack: Ø3.5mm, Ø2.5mm
04. Waterproof Rating		IP66
05. Standard Cable Length (for Molded Cable)		1-99M (Standard Cable: UL2464 PVC Jacket)

Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
	<b>LTWDCP-14RMFP-QC6001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• DC Power Jack Connector</li> <li>• Ø 3.5mm</li> <li>• Male Connector</li> <li>• Panel Rear Mounting</li> <li>• IP 66</li> </ul>		<b>LTWDCP-14AFMM-QL6A</b>  <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• DC Power Plug Connector</li> <li>• Ø 3.5mm</li> <li>• Female Connector</li> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• IP 66</li> <li>•  Cable length, 1 to 99 Meters</li> </ul>	

Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
	<b>LTWDCM-01RMFS-QC6001</b> <b>LTWDCM-02RMFS-QC6001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• DC Mono Phone Jack Connector</li> <li>• Ø 2.5mm or Ø 3.5mm</li> <li>• Male Connector</li> <li>• Rear Mounting</li> <li>• IP 66</li> </ul>		<b>LTWDCM-01AFMM-QL6AXX</b> <b>LTWDCM-02AFMM-QL6AXX</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• DC Mono Jack Connector</li> <li>• Ø 2.5mm or Ø 3.5mm</li> <li>• Female Connector</li> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• IP 66</li> </ul>	
	<b>LTWDCS-01RMFS-QC6001</b> <b>LTWDCS-02RMFS-QC6001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• DC Stereo Phone Jack Connector</li> <li>• Ø 2.5mm or Ø 3.5mm</li> <li>• Male Connector</li> <li>• Rear Mounting</li> <li>• IP 66</li> </ul>			
	<b>LTWDCM-01AMFM-QL6AXX</b> <b>LTWDCM-02AMFM-QL6AXX</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• DC Mono Phone Jack Connector</li> <li>• Ø 2.5mm or Ø 3.5mm</li> <li>• Male Connector</li> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• IP 66</li> </ul>		<b>LTWDCS-01AFMM-QL6AXX</b> <b>LTWDCS-02AFMM-QL6AXX</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• DC Stereo Jack Connector</li> <li>• Ø 2.5mm or Ø 3.5mm</li> <li>• Female Connector</li> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• IP 66</li> </ul>	
	<b>LTWDCS-01AMFM-QL6AXX</b> <b>LTWDCS-02AMFM-QL6AXX</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• DC Stereo or Mono Phone Jack Connector</li> <li>• Ø 2.5mm or Ø 3.5mm</li> <li>• Male Connector</li> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• IP 66</li> </ul>			

**XXX - XX X X X X - X X X XXX**

**Numbe of Contacts**

- 03, 04, 06, 07..... Pin

**Style**

- A – For Cable with S/R
- B – For Cable without S/R
- P – For Panel Front Mounting
- R – For Panel Rear Mounting

**Connector Style**

- M – Male Connector
- F – Female Connector

**Specification**

- PWE – Power Connector Current Rating 8A
- PWF – Power Connector Current Rating 12A
- PWC – Power Connector Current Rating 20A
- PWH – Power Connector Current Rating 25A
- PWBU – Power Connector Current Rating 10A+2A
- PWCU – Power Connector Current Rating 20A+2A
- PWG – Power Connector Current Rating 16A

**Contact Type**

- M – Male
- F – Female
- C – Combo

**Mating Style**

- L – Lock
- S – Screw
- Q – Quick

**Waterproof Rating**

- 6 = IP 66
- 7 = IP 67
- 8 = IP 68

**Back Shell**

- L – Straight (180° For Cable Type)
- R – Right Angle (90° For Cable Type)
- C – Circular (For Panel Type)
- S – Square (For Panel Type)

**Version**

- 000 : Phantom Without Cable
- 001, 002,..... For Cable
- A01 - 1M ~ A99 - 99M
  - A – UL2464 Cable
  - B – Power Cable

**Assembly Style**

- M – Molding Type
- A – Assembly Type
- S – Solder Type
- P – 180° PCB Type
- R – 90° PCB Type
- B – Screw in Type

**SPECIFICATIONS**

No.	Specifications	Standard Value
01. Identifications		Power Connector
02. Description		Panel Mount, Molded with Cable and Field Installable
03. Current Rating / Pin Arrangements		8A : 5 to 7 12A : 2 to 4 16A : 3+PE (Screw in Type Termination) 20A : 3
04. Material		Contacts: Copper Alloy, Gold Plated 16A Available in Gold, Silver and Tin Plating Connector Body: Nylon + GF UL Recognized
05. Temperature Range		Cable: -20°C to +80°C Connector Body: -40°C to +105°C
06. Waterproof Rating		IP67
07. Contact Resistance		5mΩ
08. Insulation Resistance		≥100MΩ at DC 250V
09. Durability		500 Times
10. Breakdown Voltage		≥AC 1000V / 1 Minute
11. Standard Cable Length (for Molded Cable)		1–99M (Standard Cable: UL2464 PVC Jacket or Power Cable)
12. Field Installable		All Solder Contacts Unless And Otherwise Indicated

CONTACT PIN ARRANGEMENT

<p><b>8A Current</b> Size is between C and D size</p>
<p><b>12A Current</b> Size is between C and D size</p>
<p><b>16A Current</b> Size is between C and D size</p>
<p><b>20A Current</b> C size</p>
<p><b>20A+2A Current</b> Size is over E size</p>
<p><b>25A Current</b> C size</p>
<p>○ 2A    ● 8A    ○ 12A    ○ 16A    ○ 20A    ○ 25A</p> <p>○ Female Connector Female Pin    ○ Male Connector Male Pin</p> <p>○ Female Connector Male Pin    ○ Male Connector Female Pin</p>


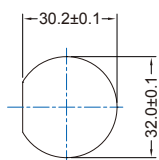


Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
<p><b>LTWPWE-△PMMS-SC7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Male Connector</li> <li>• Front Mounting</li> <li>• IP 67</li> <li>• Solder Contacts</li> <li>• △ 8A: 5 to 7 Pins</li> <li>• UL Approved</li> </ul> <p><b>PANEL CUT-OUT</b></p>		<p><b>LTWPWE-△AFFM-SL7AX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Female Connector</li> <li>• In-line Molded Type (Cable to Cable or Cable to Field Installable)</li> <li>• With SR</li> <li>• IP 67</li> <li>• △ 8A: 5 to 7 Pins</li> </ul>		
		<p><b>LTWPWE-△BFFA-SL7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Female Connector</li> <li>• Solder Contacts</li> <li>• In-line Field Installable (Field Installable to Field Installable or Cable to Field Installable)</li> <li>• Without SR</li> <li>• IP 67</li> <li>• △ 8A: 5 to 7 Pins</li> <li>• UL Approved</li> </ul>		
<p><b>LTWPWE-△PFFS-SC7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Female Connector</li> <li>• Front Mounting</li> <li>• IP 67</li> <li>• Solder Contacts</li> <li>• △ 8A: 5 to 7 Pins</li> <li>• UL Approved</li> </ul> <p><b>PANEL CUT-OUT</b></p>		<p><b>LTWPWE-△AMMM-SL7AX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Male Connector</li> <li>• In-line Molded Type (Cable to Cable or Cable to Field Installable)</li> <li>• With SR</li> <li>• IP 67</li> <li>• △ 8A: 5 to 7 Pins</li> </ul>		
		<p><b>LTWPWE-△BMMA-SL7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Male Connector</li> <li>• Solder Contacts</li> <li>• In-line Field Installable (Field Installable to Field Installable or Cable to Field Installable)</li> <li>• Without Cable</li> <li>• IP 67</li> <li>• △ 8A: 5 to 7 Pins</li> <li>• UL Approved</li> </ul>		

Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>PANEL CUT-OUT</b></p> 	<p><b>LTWPWF-PMMS-SC7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Male Connector</li> <li>• Front Mounting</li> <li>• IP 67</li> <li>• Solder Contacts</li> <li>• 12A: 2 to 4 Pins</li> <li>• UL Approved</li> </ul>	 <p><b>LTWPWF-AFFM-SL7AX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Female Connector</li> <li>• In-line Molded Type (Cable to Cable or Cable to Field Installable)</li> <li>• With SR</li> <li>• IP 67</li> <li>• 12A: 2 to 4 Pins</li> </ul>		
		 <p><b>LTWPWF-BFFA-SL7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Female Connector</li> <li>• Solder Contacts</li> <li>• In-line Field Installable (Field Installable to Field Installable or Cable to Field Installable)</li> <li>• Without SR</li> <li>• IP 67</li> <li>• 12A: 2 to 4 Pins</li> </ul>		
 <p><b>PANEL CUT-OUT</b></p> 	<p><b>LTWPWF-PFFS-SC7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Female Connector</li> <li>• Front Mounting</li> <li>• IP 67</li> <li>• Solder Contacts</li> <li>• 12A: 2 to 4 Pins</li> <li>• UL Approved</li> </ul>	 <p><b>LTWPWF-AMMM-SL7AX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Male Connector</li> <li>• In-line Molded Type (Cable to Cable or Cable to Field Installable)</li> <li>• With SR</li> <li>• IP 67</li> <li>• 12A: 2 to 4 Pins</li> </ul>		
		 <p><b>LTWPWF-BMMA-SL7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Male Connector</li> <li>• Solder Contacts</li> <li>• In-line Field Installable (Field Installable to Field Installable or Cable to Field Installable)</li> <li>• Without Cable</li> <li>• IP 67</li> <li>• 12A: 2 to 4 Pins</li> </ul>		

Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>PANEL CUT-OUT</b></p> 	<p><b>LTWPWG-04PFFB-SC</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Male Connector, Screw Type Lock</li> <li>• Panel Type, Nylon + GF Material</li> <li>• IP 67</li> <li>• Male Pins 16A (3+PE)</li> </ul>	 <p><b>LTWPWG-04BMMB-SL</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Male Connector, Screw Type Lock</li> <li>• Straight Assembly Type, Nylon + GF Material</li> <li>• IP 67</li> <li>• Male Pins 16A (3+PE)</li> </ul>		
		 <p><b>LTWPWG-04BMMB-SR</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Male Connector, Screw Type Lock</li> <li>• Right Angle Assembly Type, Nylon + GF Material</li> <li>• IP 67</li> <li>• Male Pins 16A (3+PE)</li> </ul>		
 <p><b>PANEL CUT-OUT</b></p> 	<p><b>LTWPWG-04PMMB-SC</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Female Connector, Screw Type Lock</li> <li>• Panel Type, Nylon + GF Material</li> <li>• IP 67</li> <li>• Female Pins 16A (3+PE)</li> </ul>	 <p><b>LTWPWG-04BMMB-SL</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Female Connector, Screw Type Lock</li> <li>• Straight Assembly Type, Nylon + GF Material</li> <li>• IP 67</li> <li>• Female Pins 16A (3+PE)</li> </ul>		
		 <p><b>LTWPWG-04BMMB-SR</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Female Connector, Screw Type Lock</li> <li>• Right Angle Assembly Type, Nylon + GF Material</li> <li>• IP 67</li> <li>• Female Pins 16A (3+PE)</li> </ul>		

Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>PANEL CUT-OUT</b></p>	<p><b>LTWPWC-03RMMS-LC7001</b> <b>LTWPWC-03RMMS-LC7002</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Panel Male Connector, Lock Type</li> <li>• Rear Mounting</li> <li>• IP 67</li> <li>• 20A (2+PE)</li> <li>• Solder Type, Male Contacts</li> <li>• UL and TUV Approved: LTWPWC-03RMMS-LC7002</li> </ul>	 <p><b>LTWPWC-03AFFM-LL7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Female Connector</li> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• 20A (2+PE) Female Contacts</li> <li>• IP 67</li> </ul>		
		 <p><b>LTWPWC-03BFFA-LL7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Female Connector</li> <li>• Field Installable</li> <li>• 20A (2+PE) Female Contacts</li> <li>• IP 67</li> </ul>		
 <p><b>PANEL CUT-OUT</b></p>	<p><b>LTWPWC-03RMFS-LC7001</b> <b>LTWPWC-03RMFS-LC7002</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Panel Male Connector, Lock Type</li> <li>• Rear Mounting</li> <li>• IP 67</li> <li>• 20A (2+PE)</li> <li>• Solder Type, Female Contacts</li> <li>• UL and TUV Approved: LTWPWC-03RMFS-LC7002</li> </ul>	 <p><b>LTWPWC-03AFMM-LL7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Female Connector</li> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• 20A (2+PE) Male Contacts</li> <li>• IP 67</li> </ul>		
		 <p><b>LTWPWC-03BFMA-LL7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Female Connector</li> <li>• Field Installable</li> <li>• 20A (2+PE) Male Contacts</li> <li>• IP 67</li> </ul>		

Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>PANEL CUT-OUT</b></p>	<p><b>LTWPWCU-04RMMS-LC7001</b> <b>LTWPWCU-04RMMS-LC7002</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Panel Male Connector, Lock Type</li> <li>• Rear Mounting</li> <li>• IP 67</li> <li>• 20A*3+2A Male Contacts</li> <li>• Solder Type</li> <li>• UL and TUV Approved: LTWPWU-03RMMS-LC7002</li> </ul>	 <p><b>LTWPWCU-04AFFM-LL7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Female Connector</li> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• 20A*3+2A Female Contacts</li> <li>• IP 67</li> </ul>		
		 <p><b>LTWPWCU-04AFMM-LL7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Female Connector</li> <li>• Male Contact</li> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• 20A*3+2A Male Contacts</li> <li>• IP 67</li> </ul>		
 <p><b>PANEL CUT-OUT</b></p>	<p><b>LTWPWCU-04RMFS-LC7001</b> <b>LTWPWCU-04RMFS-LC7002</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Panel Male Connector, Lock Type</li> <li>• Rear Mounting</li> <li>• IP 67</li> <li>• 20A*3+2A Female Contacts</li> <li>• Solder Type</li> <li>• UL and TUV Approved: LTWPWU-03RMFS-LC7002</li> </ul>	 <p><b>LTWPWCU-04AFMM-LL7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Female Connector</li> <li>• Male Contact</li> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• 20A*3+2A Male Contacts</li> <li>• IP 67</li> </ul>		
		 <p><b>LTWPWCU-04AFMM-LL7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Female Connector</li> <li>• Male Contact</li> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• 20A*3+2A Male Contacts</li> <li>• IP 67</li> </ul>		

Male Connector		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>PANEL CUT-OUT</b></p> 	<p><b>LTWPWH-03PMMB-SC7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>Panel Male Connector</li> <li>Screw Type</li> <li>Front Mounting</li> <li>25A (2+PE)</li> <li>IP 67</li> <li>Screw in Type Male Contacts</li> </ul>		<p><b>LTWPWH-03AFFM-SL7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>Female Connector</li> <li>Screw Type with SR</li> <li>Molded with Cable</li> <li>25A (2+PE) Female Pins</li> <li>IP 67</li> </ul>	
 <p><b>PANEL CUT-OUT</b></p> 	<p><b>LTWPWH-03AMMM-SL7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>Screw Type with SR</li> <li>Molded with Cable</li> <li>25A (2+PE) Male Pins</li> <li>IP 67</li> </ul>			

**XXX - XX X XX X - X X X XXX**

**Cat**

- 00
- 05 – Cat.5
- 5E – Cat.5e
- 06 – Cat.6

**Mating Style**

- L – Lock
- S – Screw
- Q – Quick

**Waterproof Rating**

- 6 = IP 66
- 7 = IP 67
- 8 = IP 68

**Style**

- A – For Cable with S/R
- B – For Cable without S/R
- P – For Panel Front Mounting
- R – For Panel Rear Mounting

**Back Shell**

- L – Straight (180° For Cable Type)
- R – Right Angle (90° For Cable Type)
- C – Circular (For Panel Type)
- S – Square (For Panel Type)

**Connector Style**

- MM – Plug Connector
- FF – Jack Connector

**Assembly Style**

- M – Molding Type
- A – Assembly Type
- S – Solder Type
- P – 180° PCB Type
- R – 90° PCB Type
- D – 110D
- I – IDC
- J – Jack
- T – Terminal Type

**Specification**


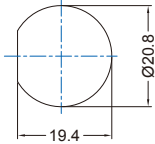


- RJ – RJ45 Connector
- RJS – RJ45 Shield Connector Plastics Nut
- RJM – RJ45 Shield Connector Metal Nut
- RJ0 – RJ 10PXC Connector (13/16"-16UN)
- RS0 – RJ 10PXC Shield Connector Plastics Nut (13/16"-16UN)
- RM0 – RJ 10PXC Shield Connector Metal Nut (13/16"-28UN)
- RJ8 – RJ 8PXC Connector (13/16"-16UN)
- RS8 – RJ 8PXC Shield Connector (13/16"-16UN)
- RJ6 – RJ 6PXC Connector (13/16"-16UN)
- RS6 – RJ 6PXC Shield Connector (13/16"-16UN)
- RM6 – RJ 6PXC Shield Connector Metal Nut (13/16"-28UN)
- RJ4 – RJ 4PXC Connector (13/16"-16UN)
- RS4 – RJ 4PXC Shield Connector (13/16"-16UN)
- RM4 – RJ 4PXC Shield Connector Metal Nut (13/16"-28UN)




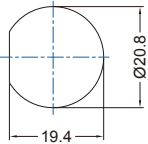


**Version**








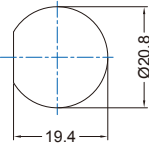










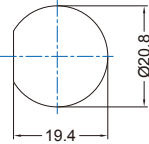


- 000 : Phantom
- Without Cable
- 001, 002,.....
- For Cable
- A01 - 1M ~ A99 - 99M
- A – C5 UTP Cable
- B – C5 FTP Cable
- D – C5E UTP Cable
- E – C5E FTP Cable

SPECIFICATIONS


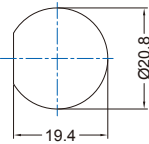
No.	Specifications	Standard Value
01. Identifications		RJ Jack and plug
02. Description		Panel Mount, Molded with Cable and Field Installable
03. Data		100 Base, 100 Base T and 1000 Base T Networks Cat 5E per TIA or EIA 568B Class D per ISO / IEC 11801
04. Category		Cat. 5 Cat. 5E Cat. 6
05. Material		Contacts: Copper Alloy with Gold Plated Connector Body: PBT(Jack), Polycarbonate(Plug)
06. Temperature Range		-20°C to +80 C -40°C to +85°C
07. Waterproof Rating		IP67, IP68
08. Durability		750 Cycles
09. Flame Test		UL / CSA FT4 Flame Test
10. Thermal shock		5 Cycles at -20°C to +80°C and -40°C to +85°C
11. Salt Spray		48 hrs
12. Standard Cable Length (for Molded Cable)		1-99M (Standard Cable: UTP or FTP)

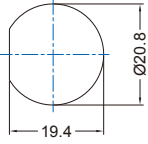

Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>PANEL CUT-OUT</b></p> 	<p><b>LTWRM0-5EPFFJ-SC7</b>△</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• 10P10C</li> <li>• Screw Type</li> <li>• IP 67</li> <li>• △ Means Different Versions</li> </ul>		<p>LTWRM0-5EBMMM-SL7EXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Molded with Cable</li> <li>• IP 67</li> <li>• 10P10C</li> <li>• Cable FTP</li> </ul>	
			<p>LTWRJM-00BMMA-SL7003</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Field Installable</li> <li>• Metal</li> <li>• IP 67</li> </ul>	

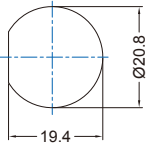


Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>LTWRJM-5EPFFJ-SC7</b> </p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Shielded RJ45</li> <li>• Cat.5E</li> <li>• RJ45 Jack</li> <li>• Screw Type</li> <li>• IP 67</li> <li>•  Means Different Versions</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p>LTWRJM-5EBMMM-SL7EXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Molded with Cable</li> <li>• IP 67</li> <li>• RJ45</li> <li>• Cat.5E</li> <li>• Cable FTP</li> </ul>		
			 <p>LTWRJM-00BMMMA-SL7003</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Field Installable</li> <li>• Metal</li> <li>• IP 67</li> </ul>	

Panel (Chassis) Mount		Mating Parts of 1 & 2		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>LTW</b>  <b>-5EPFF</b>  <b>-SC7</b> </p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Cat.5E</li> <li>• IP 67</li> <li>•  RJ45 or Shielded RJ45</li> <li>•  110D or RJ45 Jack</li> <li>•  Means Different Versions</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p>LTW   BMMM-SL7  XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Molded with Cable</li> <li>• IP 67</li> <li>•  RJ45 or Shielded RJ45</li> <li>•  Cat.5 or Cat.5E</li> <li>•  Cable UTP or FTP</li> </ul>		
			 <p>LTWRJ-00AMMA-SL7002</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Field Installable</li> <li>• With SR</li> <li>• RJ45</li> <li>• IP 67</li> </ul>	
 <p><b>LTWRJ-05PFFT-SC7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• RJ45</li> <li>• Cat.5</li> <li>• Terminal Type</li> <li>• Screw Type</li> <li>• IP 67</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p>LTWRJ-00BMMMA-SL7005</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Field Installable</li> <li>• Without SR</li> <li>• RJ45</li> <li>• IP 67</li> </ul>		


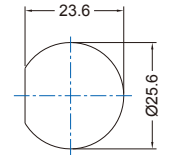

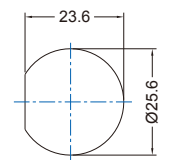


Panel (Chassis) Mount		Mating Parts of 3~5		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>3</b></p> <p><b>PANEL CUT-OUT</b></p> 	<p><b>LTWRJS-5EPFFJ-SC7<sup>△</sup></b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• RJ45 Jack</li> <li>• Cat.5E</li> <li>• Shielded RJ45</li> <li>• IP 67</li> <li>• <sup>△</sup> Means Different Versions</li> </ul>		<p><b>LTW<sup>△</sup>-<sup>△</sup>BMMM-SL7<sup>△</sup>XX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Molded with Cable</li> <li>• IP 67</li> <li>• <sup>△</sup> RJ45 or Shielded RJ45</li> <li>• <sup>△</sup> Cat.5 or Cat.5E</li> <li>• <sup>△</sup> Cable UTP or FTP</li> </ul>	 
 <p><b>4</b></p> <p><b>PANEL CUT-OUT</b></p> 	<p><b>LTWRJ-5EPFFJ-SC7004</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• RJ45 Jack</li> <li>• Cat.5E</li> <li>• Shielded RJ45</li> <li>• IP 67</li> </ul>		<p><b>LTWRJ-00AMMA-SL7002</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Field Installable</li> <li>• With SR</li> <li>• RJ45</li> <li>• IP 67</li> </ul>	
 <p><b>5</b></p> <p><b>PANEL CUT-OUT</b></p> 	<p><b>LTW<sup>△</sup>-5EAFFM-SL7<sup>△</sup>XX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Cat.5E</li> <li>• IP 67</li> <li>• <sup>△</sup> RJ45 or Shielded RJ45</li> <li>• <sup>△</sup> Cable UTP or FTP</li> </ul>		<p><b>LTWRJ-00BMMMA-SL7005</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Field Installable</li> <li>• Without SR</li> <li>• RJ45</li> <li>• IP 67</li> </ul>	


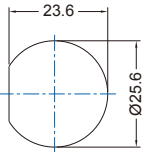
Panel (Chassis) Mount		Mating Parts of 1 & 2		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>1</b></p> <p><b>PANEL CUT-OUT</b></p> 	<p><b>LTWRJ8-5EPFFJ-SC7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• RJ45</li> <li>• Cat.5E</li> <li>• RJ45 Jack</li> <li>• Screw Type</li> <li>• IP 67</li> </ul>		<p><b>LTWRJ8-00AMMA-SL7002</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Field Installable</li> <li>• With SR</li> <li>• RJ45</li> <li>• IP 67</li> </ul>	
 <p><b>2</b></p> <p><b>PANEL CUT-OUT</b></p> 	<p><b>LTWRS8-5EPFFJ-SC7<sup>△</sup></b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Shielded RJ45</li> <li>• Cat.5E</li> <li>• RJ45 Jack</li> <li>• Screw Type</li> <li>• IP 67</li> <li>• <sup>△</sup> Means Different Versions</li> </ul>		<p><b>LTWRJ8-00BMMMA-SL7<sup>△</sup></b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Field Installable</li> <li>• Without SR</li> <li>• RJ45</li> <li>• IP 67</li> <li>• <sup>△</sup> Means Different Versions</li> </ul>	
			<p><b>LTWRJ8-<sup>△</sup>BMMM-SL7<sup>△</sup>X</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Molded with Cable</li> <li>• IP 67</li> <li>• <sup>△</sup> Cat.5 or Cat.5E</li> <li>• <sup>△</sup> Cable UTP or FTP</li> </ul>	


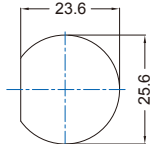


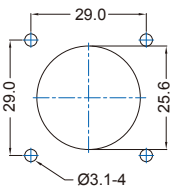

Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>PANEL CUT-OUT</b></p> 	<p><b>LTWRJ6-00PFFJ-SC7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• IP 67</li> </ul>	 <p>LTWRJ6-00BMMA-SL7001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Field Installable</li> <li>• Without SR</li> <li>• IP 67</li> </ul>		
		 <p>LTWRJ6-00BMMM-SL7AXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Molded with Cable</li> <li>• Without SR</li> <li>• IP 67</li> </ul>		

Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>PANEL CUT-OUT</b></p> 	<p><b>LTWRJ4-00PFFJ-SC7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Panel Front Mounting</li> <li>• IP 67</li> </ul>	 <p>LTWRJ4-00BMMA-SL7001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Assembly Type</li> <li>• Without SR</li> <li>• IP 67</li> </ul>		
		 <p>LTWRJ4-00BMMM-SL7A<sup>△</sup></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Molding Type</li> <li>• Without SR</li> <li>• IP 67</li> <li>• <sup>△</sup>Means Different Versions</li> </ul>		


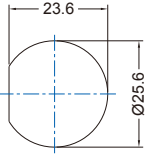



Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>LTWRJ-PPFD-SS7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• 110D</li> <li>• RJ45</li> <li>• IP 67</li> <li>• Cat.5E or Cat.6</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p><b>LTWRJ-00BMM-SL7002</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Field Installable</li> <li>• Without SR</li> <li>• RJ45</li> <li>• IP 67</li> </ul>		
 <p><b>LTWRJS-PPF-SS7</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• RJ45 Shielded</li> <li>• Screw Type</li> <li>• IP 67</li> <li>• Cat. 00 or Cat.5E</li> <li>• 110D, RJ45 Jack or PCB 90</li> <li>• Means Different Versions</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p><b>LTWRJS-AMMM-S7XX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Molded with Cable</li> <li>• Shielded RJ45</li> <li>• IP 67</li> <li>• Cat.5 or Cat.5E</li> <li>• Available in Straight or Right</li> <li>• Cable UTP or FTP</li> </ul>	 <p><b>LTWRJ-00AMM-SL7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Field Installable</li> <li>• With SR</li> <li>• RJ45</li> <li>• IP 67</li> </ul>	
		 <p><b>LTWRJ-00BMM-SL7004</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Field Installable</li> <li>• Without SR</li> <li>• RJ45</li> <li>• IP 67</li> </ul>		

Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>LTWRJS-00PFJ-SC7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• RJ45 Shielded</li> <li>• Screw Type</li> <li>• RJ45 Jack</li> <li>• IP 67</li> </ul> <p><b>PANEL CUT-OUT</b></p> 				
 <p><b>LTWRJS-00PFFA-SC7</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• RJ45 Shielded</li> <li>• Screw Type</li> <li>• Field Installable</li> <li>• IP 67</li> <li>• Means Different Versions</li> </ul> <p><b>PANEL CUT-OUT</b></p> 				
 <p><b>LTWRJS-00BFFA-SL7</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• RJ45 Shielded</li> <li>• Screw Type</li> <li>• Field Installable</li> <li>• IP 67</li> <li>• Means Different Versions</li> </ul>				


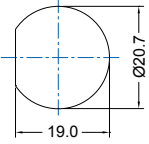


Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>PANEL CUT-OUT</b></p> 	<p>LTWRJS-5EPFFJ-SC7007</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• RJ45 Shielded</li> <li>• Screw Type</li> <li>• Field Installable</li> <li>• IP 67</li> </ul>			

Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>PANEL CUT-OUT</b></p> 	<p>LTWRJM-△PFFD-S△7001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• 110D</li> <li>• RJ45 Shielded</li> <li>• IP 67</li> <li>• △ Cat.5E or Cat.6</li> <li>• △ Circulr or Square Backshell</li> </ul>	 <p>LTWRJ-00BMMMA-SL7001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Field Installable</li> <li>• Without SR</li> <li>• RJ45 or Shielded RJ45</li> <li>• IP 67</li> </ul>		
 <p><b>PANEL CUT-OUT</b></p> 		 <p>LTWRJ-00BMMMA-SL8003</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Field Installable</li> <li>• Without SR</li> <li>• RJ45 or Shielded RJ45</li> <li>• IP 68</li> </ul>		

# 111 RJ45 Plastic Lock Type (1"-20UNEF)

Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>PANEL CUT-OUT</b></p> 	<p><b>LTW△-5EPFFP-LC7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Lock Type</li> <li>• PCB 180</li> <li>• Cat.5E</li> <li>• IP 67</li> <li>• △ RJ45 or Shielded RJ45</li> </ul>	 <p>LTW△-5EAMMM-L△7△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Lock Type</li> <li>• Molded with cable</li> <li>• Cat.5E</li> <li>• IP 67</li> <li>• △ RJ45 or RJ45 Shielded</li> <li>• △ Available in traight or Right</li> <li>• △ Cable UTP or FTP</li> </ul>		
		 <p>LTWRJ-00△MMA-LL7001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• RJ45</li> <li>• Lock Type</li> <li>• Field Installable</li> <li>• IP 67</li> <li>• △ With or Without SR</li> </ul>		

# RJ45 to M12 A-Coded Adaptor 112

Panel (Chassis) Mount		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>PANEL CUT-OUT</b></p> 	<p><b>LTWRJS-12A08FM-RS6001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• RJ45 Shielded</li> <li>• M12 D-Coded</li> <li>• Screw Type</li> <li>• IP 66</li> </ul>			 

**XXX - XX X X X X - X X X XXX**

**Number of Contacts**

- 02, 03, .....08 Pin

**Style**

- A – For Cable with S/R
- B – For Cable without S/R
- P – For Panel

**Connector Style**

- M – Male Connector
- F – Female Connector

**Contact Type**

- M – Male
- F – Female
- I – I style

**Specification**

- M8 Size:**
- 8 – M8 Sensor Connector
  - 8P – M8 Plastic Sensor Connector
- M10.5 Size:**
- 105 – M10.5 Sensor Connector
- M12 Size:**
- 12 – M12 M12 I-Style Sensor Connector
  - 12L – M12 LED Sensor Connector
  - 12P – M12 M12 I-Style Plastic Sensor Connector
  - 12S – M12 Shield Sensor Connector
  - 12B – M12 B-Coded Sensor Connector
  - SBL – M12 B-Coded LED Sensor Connector
  - SBP – M12 B-Coded Plastic Sensor Connector
  - SBS – M12 B-Coded Shield Sensor Connector
  - 12D – M12 D-Coded Sensor Connector
  - SDL – M12 D-Coded LED Sensor Connector
  - SDP – M12 D-Coded Plastic Sensor Connector
  - SDS – M12 D-Coded Shield Sensor Connector

**Waterproof Rating**

- 5 = IP 65
- 6 = IP 66
- 7 = IP 67
- 8 = IP 68

**Version**

- 000 : Phantom
- Without Cable 001, 002,.....
- For Cable
- A01 - 1M ~ A99 - 99M
  - A – PVC UL2464 Cable
  - B – PU VW-1 Cable

**Back Shell**

- L – Straight (180° For Cable Type)
- R – Right Angle (90° For Cable Type)
- C – Circular (For Panel Type)
- F – Front Hexagonal (For Panel Type)
- H – Rear Hexagonal (For Panel Type)

**Mating Style**

- L – Lock
- S – Screw
- Q – Quick



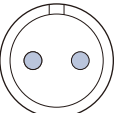
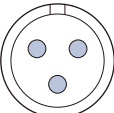
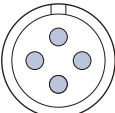
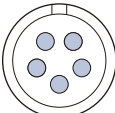
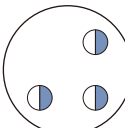
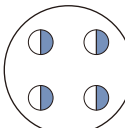
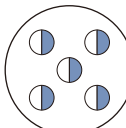
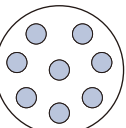
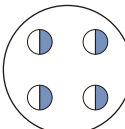
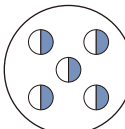
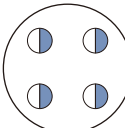
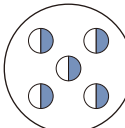
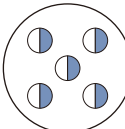






**Assembly Style**








- M – Molding Type
- A – Assembly Type (Solder) Pins
- B – Assembly Type (Screw) Pins
- C – Assembly Type (IDC) Pins
- S – Solder Type
- P – PCB Type (180°)
- R – PCB Type (90°)






**SPECIFICATIONS**

No.	Specifications	Standard Value
01. Identifications		M8, M10.5, M12, M12 B-Coded, M12 D-Coded, M12 I-Style
02. Description		Panel Mount, Molded with Cable and Field Installable
03. Current Rating / Pin Arrangements		M8: 5A: 3 and 4 M10.5: 2A: 2 to 5 M12: 2A: 8, 5A: 3 to 5 M12 B-Coded: 5A: 4 and 5 M12 D-Coded: 5A: 4 and 5 M12 I-Style: 5A: 5
04. Material		Contacts: Copper Alloy, Gold Plated Connector Body: Nylon+GF or PU, UL Recognized Shield: Zinc Alloy or Copper Alloy, Nickel Plated
05. Temperature Range		Cable: -25°C to +90°C (PU) -20°C to +80°C (PVC) Connector Body: -25°C to +90°C
06. Waterproof Rating		IP65, IP66, IP67, IP68
07. Contact Resistance		≤10MΩ
08. Insulation Resistance		≥100mΩ at DC 500V
09. Breakdown Voltage		≥AC 500V / 1 Minute
10. Standard Cable Length (for Molded Cable)		1–99M (Standard Cable: UL2464 PVC Jacket or PU)
11. Field Installable		All Solder Contacts Unless And Otherwise Indicated


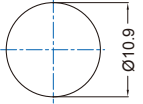



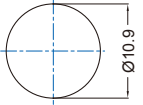


CONTACT PIN ARRANGEMENT

<b>M8</b>				
	5A:3	5A:4		
<b>M10.5</b>				
	2A:2	2A:3	2A:4	2A:5
<b>M12</b>				
	5A:3	5A:4	5A:5	2A:8
<b>M12 B-Coded</b>				
	5A:4	5A:5		
<b>M12 D-Coded</b>				
	5A:4	5A:5		
<b>M12 I Style</b>				
	5A:5			
	 2A	 5A	 Female Connector Female Pin	 Female Connector Male Pin
			 Male Connector Male Pin	 Male Conn Female Pin

Female Connector		Mating Parts		Accessories	
CONNECTOR	P/N	CONNECTOR	P/N		
 <p><b>LTW8-△PFFS-SH7△</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Rear Mounting</li> <li>• Solder Contacts</li> <li>• IP 67</li> <li>• △ Available in 3 and 4 Pins</li> <li>• △ Means Different Versions</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p><b>LTW8-△AMMM-SL7△XX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type with SR</li> <li>• 180° Molded with Cable</li> <li>• △ Available in 3 and 4 Pins</li> <li>• △ Available in PVC or PU Cable</li> <li>• IP 67</li> </ul>			
			 <p><b>LTW8-△AMMM-SR7△XX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type with SR</li> <li>• 90° Molded with Cable</li> <li>• △ Available in 3 and 4 Pins</li> <li>• △ Available in PVC or PU Cable</li> <li>• IP 67</li> </ul>	 <p>Cap-Screw (for Female)</p>	
			 <p><b>LTW8-△BMMM-SL7△XX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type without SR</li> <li>• 180° Molded with Cable</li> <li>• △ Available in 3 and 4 Pins</li> <li>• △ Available in PVC or PU Cable</li> <li>• IP 67</li> </ul>		
			 <p><b>LTW8-△BMMM-SR7△XX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type without SR</li> <li>• 90° Molded with Cable</li> <li>• △ Available in 3 and 4 Pins</li> <li>• △ Available in PVC or PU Cable</li> <li>• IP 67</li> </ul>	 <p>Cap-Screw (for Male)</p>	
			 <p><b>LTW8P-04BMMB-SL7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Screw in Termination</li> <li>• 180° Field Installable</li> <li>• IP 67</li> </ul>		

Male Connector		Mating Parts of 1 & 2		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>1</b></p> <p><b>LTW8-△PMMS-SH7△</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Rear mounting</li> <li>• Solder Contacts</li> <li>• IP 67</li> <li>• △ Available in 3 and 4 Pins</li> <li>• △ Means Different Versions</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p>LTW8-△AFFM-SL7△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type with SR</li> <li>• 180° Molded with Cable</li> <li>• △ Available in 3 and 4 Pins</li> <li>• △ Available in PVC or PU Cable</li> <li>• IP 67</li> </ul>		 <p>Cap-Screw (for Female)</p>
		 <p>LTW8-△AFFM-SR7△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type with SR</li> <li>• 90° Molded with Cable</li> <li>• △ Available in 3 and 4 Pins</li> <li>• △ Available in PVC or PU Cable</li> <li>• IP 67</li> </ul>		
 <p><b>2</b></p> <p><b>LTW8-△PMM△-SF7△</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Hexagonal Backshell</li> <li>• Solder Contacts</li> <li>• IP 67</li> <li>• △ Available in 3 and 4 Pins</li> <li>• △ Solder or PCB Contacts</li> <li>• △ Means Different Versions</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p>LTW8-△BFFM-SL7△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type without SR</li> <li>• 180° Molded with Cable</li> <li>• △ Available in 3 and 4 Pins</li> <li>• △ Available in PVC or PU Cable</li> <li>• IP 67</li> </ul>		 <p>Cap-Screw (for Male)</p>
		 <p>LTW8-△BFFM-SR7△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type without SR</li> <li>• 90° Molded with Cable</li> <li>• △ Available in 3 and 4 Pins</li> <li>• △ Available in PVC or PU Cable</li> <li>• IP 67</li> </ul>		
		 <p>LTW8P-04BFFB-SL7001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Screw in Termination</li> <li>• 180° Field Installable</li> <li>• IP 67</li> <li>• 5A: 4</li> </ul>		

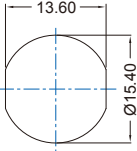

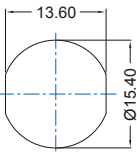

Male Connector		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>1</b></p> <p><b>LTW8P-△PMM△-SF7△</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Quick Type</li> <li>• Screw Type</li> <li>• Hexagonal Backshell</li> <li>• IP 67</li> <li>• △ Available in 3 and 4 Pins</li> <li>• △ Solder or PCB Contacts</li> <li>• △ Means Different Versions</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p>LTW8P-△AFFM-QL5△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Quick Type with Strain Relief</li> <li>• 180° Molded with Cable</li> <li>• △ Available in 3 and 4 Pins</li> <li>• △ Available in PVC or PU Cable</li> <li>• IP 65</li> </ul> <p>• Only for <b>1</b></p>		 <p>Cap-Screw (for Female)</p>
		 <p>LTW8P-04BMMB-SL7001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Screw in Termination</li> <li>• 180° Field Installable</li> <li>• IP 67</li> <li>• 5A: 4 Pins</li> </ul>	 <p>LTW8P-04BFFB-SL7001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Screw in Termination</li> <li>• 180° Field Installable</li> <li>• IP 67</li> <li>• 5A: 4 Pins</li> </ul> <p>• Only for <b>2</b></p>	
 <p><b>3</b></p> <p><b>LTW8P-△AMMM-SL7△XX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type with SR</li> <li>• 180° Molded with Cable</li> <li>• △ Available in 3 and 4 Pins</li> <li>• △ Available in PVC or PU Cable</li> </ul> <p><b>LTW8P-△AMMM-SR7△XX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type with SR</li> <li>• 90° Molded with Cable</li> <li>• △ Available in 3 and 4 Pins</li> <li>• △ Available in PVC or PU Cable</li> </ul>		 <p>LTW8P-△AFFM-SL7△XX</p> <p>LTW8P-△AFFM-SR7△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type with SR</li> <li>• 180° Molded with Cable</li> <li>• 90° Molded with Cable</li> <li>• △ Available in 3 and 4 Pins</li> <li>• △ Available in PVC or PU Cable</li> </ul> <p>• Only for <b>3 and 4</b></p>		 <p>Cap-Screw (for Male)</p>
		 <p>LTW8P-△BMMB-SL7△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type without SR</li> <li>• 180° Molded with Cable</li> <li>• △ Available in 3 and 4 Pins</li> <li>• △ Available in PVC or PU Cable</li> </ul> <p><b>LTW8P-△BMMB-SR7△XX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type without SR</li> <li>• 90° Molded with Cable</li> <li>• △ Available in 3 and 4 Pins</li> <li>• △ Available in PVC or PU Cable</li> </ul>	 <p>LTW8P-△BFFM-SL7△XX</p> <p>LTW8P-△BFFM-SR7△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type without SR</li> <li>• 180° Molded with Cable</li> <li>• 90° Molded with Cable</li> <li>• △ Available in 3 and 4 Pins</li> <li>• △ Available in PVC or PU Cable</li> </ul> <p>• Only for <b>3 and 4</b></p>	

Panel (Chassis) Mount		Mating Parts of 1 & 2		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>1</b></p> <p><b>LTW105-△PMFS-SC7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Solder Contacts</li> <li>• Circular Rear Mounting</li> <li>• IP 67</li> <li>• △ Available in 2 to 5 Pins</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p>LTW105-△AFMM-SL7AXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type with SR</li> <li>• 180° Molded with Cable</li> <li>• PVC Cable</li> <li>• △ Available in 2 to 5 Pins</li> <li>• IP 67</li> </ul>		
			 <p>LTW105-△AFMM-SR7AXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type with SR</li> <li>• 90° Molded with Cable</li> <li>• PVC Cable</li> <li>• △ Available in 2 to 5 Pins</li> <li>• IP 67</li> </ul>	
 <p><b>2</b></p> <p><b>LTW105-△PMFS-SH7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Solder Contacts</li> <li>• Hexagonal Rear Mounting</li> <li>• IP 67</li> <li>• △ Available in 2 to 5 Pins</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p>LTW105-△BFMM-SL7AXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type without SR</li> <li>• 180° Molded with Cable</li> <li>• PVC Cable</li> <li>• △ Available in 2 to 5 Pins</li> <li>• IP 67</li> </ul>		
			 <p>LTW105-△BFMM-SR7AXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type without SR</li> <li>• 90° Molded with Cable</li> <li>• PVC Cable</li> <li>• △ Available in 2 to 5 Pins</li> <li>• IP 67</li> </ul>	

Panel (Chassis) Mount		Mating Parts of 1 & 2		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>1</b></p> <p><b>LTW12-△PFFS-SF8△</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Hexagonal Backshell</li> <li>• Solder Contacts</li> <li>• IP 68</li> <li>• △ Available in 3, 4, 5 and 8 Pins (2A: 8, 5A: 3 to 5)</li> <li>• △ Means Different Versions</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p>LTW12-△AMMM-SL7△XX LTW12-△AMMM-SR7△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type with SR</li> <li>• 180° or 90° Molded with Cable</li> <li>• △2A: 8 Pins, 5A: 3 to 5 Pins</li> <li>• △ Available in PVC or PU Cable</li> <li>• IP 67</li> </ul>		 <p>Cap-Screw (for Female)</p>
			 <p>LTW12-△BMMM-SL8△XX LTW12-△BMMM-SR8△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type without SR</li> <li>• 180° or 90° Molded with Cable</li> <li>• △2A: 8 Pins, 5A: 3 to 5 Pins</li> <li>• △ Available in PVC or PU Cable</li> <li>• IP 68</li> </ul>	 <p>T Cable</p>
 <p><b>2</b></p> <p><b>LTW12-△PFFS-SH8△</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Rear Mounting</li> <li>• Solder Contacts</li> <li>• IP 68</li> <li>• △ Available in 3, 4, 5 and 8 Pins (2A: 8, 5A: 3 to 5)</li> <li>• △ Means Different Versions</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p>LTW12S-△BMMM-SL7△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type Shielded without SR</li> <li>• 180° Molded with Cable</li> <li>• △2A: 8 Pins, 5A: 3 to 5 Pins</li> <li>• △ Available in PVC or PU Cable</li> <li>• IP 67</li> </ul>		 <p>T Adaptor</p>
			 <p>LTW12-△BMMA-SL8001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Solder Contacts</li> <li>• Field Installable</li> <li>• IP 68</li> <li>• △2A: 8 Pins, 5A: 3 to 5 Pins</li> </ul>	 <p>I Adaptor</p>
		 <p>LTW12-△BMMA-SL7001 LTW12-△BMMA-SR7001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Screw in Termination</li> <li>• 180° or 90° Field Installable</li> <li>• IP 67</li> <li>• △5A: 3 to 5 Pins</li> </ul>		 <p>Y Adaptor</p>
		 <p>LTWSS-△0000-M00-YSBXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Y Cable Adaptor</li> <li>• PU Cable</li> <li>• IP 68</li> <li>• △2A: 8 Pins, 5A: 3 to 5 Pins</li> </ul>		


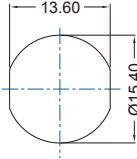


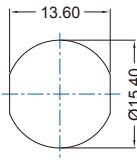

Panel (Chassis) Mount		Mating Parts of 1 & 2		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>1</b></p> <p><b>LTW12-△PMMS-SF8△</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>Screw Type</li> <li>Hexagonal Backshell</li> <li>Solder Contacts</li> <li>IP 68</li> <li>△ Available in 3, 4, 5 and 8 Pins</li> <li>△ Means Different Versions</li> <li>2A: 8 Pins, 5A: 3 to 5 Pins</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p>LTW12-△AFFM-SL7△XX LTW12-△AFFM-SR7△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>Screw Type with SR</li> <li>180° or 90° Molded with Cable</li> <li>△2A: 8 Pins, 5A: 3 to 5 Pins</li> <li>△ Available in PVC or PU Cable</li> <li>IP 67</li> </ul>		 <p>Cap-Screw (for Male)</p>
		 <p>LTW12-△BFFM-SL8△XX LTW12-△BFFM-SR8△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>Screw Type without SR</li> <li>180° or 90° Molded with Cable</li> <li>△2A: 8 Pins, 5A: 3 to 5 Pins</li> <li>△ Available in PVC or PU Cable</li> <li>IP 68</li> </ul>		
	<p><b>LTW12-△PMMP-SF8△</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>Screw Type</li> <li>Hexagonal Backshell</li> <li>PCB Contacts</li> <li>IP 68</li> <li>△ Available in 3, 4, 5 and 8 Pins</li> <li>△ Means Different Versions</li> <li>2A: 8 Pins, 5A: 3 to 5 Pins</li> </ul>	 <p>LTW12S-△BFFM-SL7△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>Screw Type Shielded without SR</li> <li>180° Molded with Cable</li> <li>△2A: 8 Pins, 5A: 3 to 5 Pins</li> <li>△ Available in PVC or PU Cable</li> <li>IP 67</li> </ul>	 <p>T Cable</p>	
		 <p>LTW12L-03BFFM-SR7△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>Screw Type w/LED without SR</li> <li>90° Molded with Cable</li> <li>△5A: 4 to 5 Pins</li> <li>△ Available in PVC or PU Cable</li> </ul>		 <p>I Adaptor</p>
 <p><b>2</b></p> <p><b>LTW12-△PMMS-SH8△</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>Screw Type</li> <li>Rear Mounting</li> <li>Solder Contacts</li> <li>IP 68</li> <li>△ Available in 3, 4, 5 and 8 Pins</li> <li>△ Means Different Versions</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p>LTW12-△BFFA-SL8001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>Screw Type</li> <li>Solder Contacts</li> <li>Field Installable</li> <li>△2A: 8 Pins, 5A: 3 to 5 Pins</li> <li>IP 68</li> </ul>		
		 <p>LTW12-△BFFB-SL7001 LTW12-△BFFB-SR7001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>Screw Type</li> <li>Screw in Termination</li> <li>180° or 90° Field installable</li> <li>△5A: 3 to 5 Pins</li> </ul>	 <p>Y Adaptor</p>	
		 <p>LTWSS-△0000-F00-YSBXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>Screw Type</li> <li>Y Cable Adaptor</li> <li>PU Cable</li> <li>△2A: 8 Pins, 5A: 3 to 5 Pins</li> </ul>		


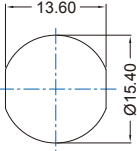





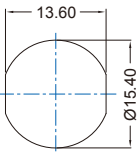






Male Connector		Mating Parts 1~2		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>1</b></p> <p><b>LTW12P-△BMMA-SL8001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>Screw Type</li> <li>Solder Contracts</li> <li>Field Installable</li> <li>IP 68</li> <li>△ Available in 3, 4, 5 and 8 Pins (2A: 8, 5A: 3 to 5)</li> </ul>		 <p>LTW12P-△BFFM-SL8△XX LTW12P-△BFFM-SR8△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>Screw Type without SR</li> <li>180° or 90° Molded with Cable</li> <li>IP 68</li> <li>△ Available in 3, 4, 5 and 8 Pins (2A: 8, 5A: 3 to 5)</li> <li>△ Available in PVC or PU Cable</li> </ul>		 <p>Cap-Screw (for Female)</p>
		 <p>LTW12P-△BFFA-SL8001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>Screw Type</li> <li>Solder Contacts</li> <li>Field Installable</li> <li>IP 68</li> <li>△ Available in 3, 4, 5 and 8 Pins (2A: 8, 5A: 3 to 5)</li> </ul>		
 <p><b>2</b></p> <p>LTW12P-△BMMM-SL8△XX LTW12P-△BMMM-SR8△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>Screw Type without SR</li> <li>180° or 90° Molded with Cable</li> <li>IP 68</li> <li>△ Available in 3, 4, 5 and 8 Pins (2A: 8, 5A: 3 to 5)</li> <li>△ Available in PVC or PU Cable</li> </ul>		 <p>LTW12P-△BFFB-SL7001 LTW12P-△BFFB-SR7001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>Screw Type</li> <li>Screw in Termination</li> <li>Field Installable</li> <li>IP 67</li> <li>△ Available in 3, 4 and 5 Pins (5A: 3 to 5)</li> </ul>		
		 <p>LTW12P-△PFFP-SF8001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>Screw Type</li> <li>PCB Contacts</li> <li>Hexagonal Backshell</li> <li>IP 68</li> <li>△ Available in 3, 4, 5 and 8 Pins (2A: 8, 5A: 3 to 5)</li> <li>Only for 1 and 3</li> </ul>		
 <p><b>3</b></p> <p>LTW12P-△BMMB-SL7001 LTW12P-△BMMB-SR7001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>Screw Type</li> <li>Screw in Termination</li> <li>Field Installable</li> <li>IP 67</li> <li>△SL7001: Available in 4, 5 Pins</li> <li>SR7001: Available in 3, 4, 5 Pins</li> </ul>		 <p>LTW12P-△PFFS-SF8001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>Screw Type</li> <li>Solder Contacts</li> <li>Hexagonal Backshell</li> <li>IP 68</li> <li>△ Available in 3, 4, 5 and 8 Pins (2A: 8, 5A: 3 to 5)</li> <li>Only for 1 and 3</li> </ul>		
				

Panel (Chassis) Mount		Mating Parts of 1 & 2		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>1</b></p> <p><b>PANEL CUT-OUT</b></p> 	<p>LTW12B-△PFFS-SF8△                      LTW12B-△PFFP-SF8△                      LTW12B-3PFFS-SF8△</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Hexagonal Backshell</li> <li>• Front Mounted</li> <li>• Solder or PCB Contacts</li> <li>• IP 68</li> <li>• △ Available in 3, 4 and 5 Pins</li> <li>• △ Means Different Versions</li> </ul>	 <p>LTW12B-△BMMM-SL8△XX                      LTW12B-△BMMM-SR8△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type without SR</li> <li>• 180° or 90° Molded with Cable</li> <li>• IP 68</li> <li>• △ Available in 4 and 5 Pins</li> <li>• △ Available in PVC or PU Cable</li> </ul>	 <p>Cap-Screw (for Female)</p>  <p>Cap-Screw (for Male)</p>	
		<p>LTW12B-△BMMA-SL8001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Solder Contacts</li> <li>• Field Installable</li> <li>• IP 68</li> <li>• △ Available in 3, 4 and 5 Pins</li> </ul>	 <p>T Cable</p> <p>UPON REQUEST</p>  <p>T Adaptor</p>	
 <p><b>2</b></p> <p><b>PANEL CUT-OUT</b></p> 	<p>LTW12B-△PFFS-SH8△</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Rear Mounting</li> <li>• Solder Contacts</li> <li>• IP 68</li> <li>• △ Available in 3, 4 and 5 Pins</li> <li>• △ Means Different Versions</li> </ul>	 <p>LTW12B-△BMMB-SL7001                      LTW12B-△BMMB-SR7001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Screw in Termination</li> <li>• Field Installable</li> <li>• 180° or 90° Field Installable</li> <li>• IP 67</li> <li>• △ Available in 4 and 5 Pins</li> </ul>	 <p>I Adaptor</p> <p>UPON REQUEST</p>  <p>Y Adaptor</p>	
		<p>LTWSB-△0000-M00-YSBXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Y Cable Adaptor</li> <li>• PU Cable</li> <li>• IP 68</li> <li>• △ Available in 4 and 5 Pins</li> </ul>		





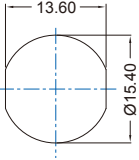

Panel (Chassis) Mount		Mating Parts of 1 & 2		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>1</b></p> <p><b>PANEL CUT-OUT</b></p> 	<p>LTW12B-△PMMS-SF8△                      LTW12B-△PMMP-SF8△                      LTW12B-3PMMS-SF8△</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Hexagonal Backshell</li> <li>• Solder or PCB Contacts</li> <li>• IP 68</li> <li>• △ Available in 4 and 5 Pins</li> <li>• △ Means Different Versions</li> </ul>	 <p>LTW12B-△BFFM-SL8△XX                      LTW12B-△BFFM-SR8△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• 180° or 90° In-Line Molded Type (Cable to Cable) without SR</li> <li>• IP 68</li> <li>• △ Available in 4 and 5 Pins</li> <li>• △ Available in PVC or PU Cable</li> </ul>	 <p>Cap-Screw (for Female)</p>  <p>Cap-Screw (for Male)</p>	
		<p>LTW12B-△BFFA-SL8001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Solder Contacts</li> <li>• Field Installable</li> <li>• IP 68</li> <li>• △ Available in 3, 4 and 5 Pins</li> </ul>	 <p>T Cable</p> <p>UPON REQUEST</p>  <p>T Adaptor</p>	
 <p><b>2</b></p> <p><b>PANEL CUT-OUT</b></p> 	<p>LTW12B-△PMMS-SH8△</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Rear Mounting</li> <li>• Solder Contacts</li> <li>• IP 68</li> <li>• △ Available in 3, 4 and 5 Pins</li> <li>• △ Means Different Versions</li> </ul>	 <p>LTW12B-△BFFB-SL7001                      LTW12B-△BFFB-SR7001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Screw in Termination</li> <li>• Field Installable</li> <li>• 180° or 90° Field Installable</li> <li>• IP 67</li> <li>• △ Available in 4 and 5 Pins</li> </ul>	 <p>I Adaptor</p> <p>UPON REQUEST</p>  <p>Y Adaptor</p>	
		<p>LTWSB-△0000-F00-YSBXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Y Cable Adaptor</li> <li>• PU Cable</li> <li>• IP 68</li> <li>• △ Available in 4 and 5 Pins</li> </ul>		




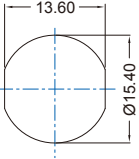




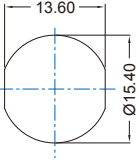


Male Connector		Mating Parts of 1~3		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>1</b></p> <p>LTWSBP-△BMMM-SL&amp;△XX LTWSBP-△BMMM-SR&amp;△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type without SR</li> <li>• 180° or 90° Molded with Cable</li> <li>• Solder or PCB Contacts</li> <li>• IP 68</li> <li>• △ Available in 4 and 5 Pins</li> <li>• △ Available in PVC or PU Cable</li> </ul>		 <p>LTWSBP-△BFFM-SL&amp;△XX LTWSBP-△BFFM-SR&amp;△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• 180° or 90° In-Line Molded Type (Cable to Cable) without SR</li> <li>• IP 68</li> <li>• △ Available in 4 and 5 Pins</li> <li>• △ Available in PVC or PU Cable</li> </ul>		 <p>Cap-Screw (for Male)</p>
 <p><b>2</b></p> <p>LTWSBP-△BMMA-SL8001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Solder Contacts</li> <li>• Field Installable</li> <li>• IP 68</li> <li>• △ Available in 3, 4 and 5 Pins</li> </ul>		 <p>LTWSBP-△BFFA-SL8001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type without SR</li> <li>• Solder Contacts</li> <li>• Field Installable</li> <li>• IP 68</li> <li>• △ Available in 3, 4 and 5 Pins</li> </ul>		
 <p><b>3</b></p> <p>LTWSBP-△BMMB-SL7001 LTWSBP-△BMMB-SR7001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Screw in Termination</li> <li>• 180° or 90° Field Installable</li> <li>• IP 67</li> <li>• △ Available in 4 and 5 Pins</li> </ul>		 <p>LTWSBP-△BFFB-SL7001 LTWSBP-△BFFB-SR7001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Solder Type</li> <li>• Screw in Termination</li> <li>• 180° or 90° Field Installable</li> <li>• IP 67</li> <li>• △ Available in 4 and 5 Pins</li> </ul>		 <p>Cap-Screw (for Female)</p>




Panel (Chassis) Mount		Mating Parts of 1 & 2		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>1</b></p> <p>LTW12D-△PFFS-SF8△ LTW12D-△PFFP-SF8△ LTW12D-3PFFP-SF8△</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Hexagonal Backshell</li> <li>• Front Mounted</li> <li>• Solder or PCB Contacts</li> <li>• IP 68</li> <li>• △ Available in 3, 4 and 5 Pins</li> <li>• △ Means Different Versions</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p>LTW12D-△BMMM-SL&amp;△XX LTW12D-△BMMM-SR&amp;△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type without SR</li> <li>• 180° or 90° Molded with Cable</li> <li>• IP 68</li> <li>• Available in 4 and 5 Pins</li> <li>• Available in PVC or PU Cable</li> <li>• △</li> </ul>		 <p>Cap-Screw (for Female)</p>
		 <p>LTW12D-△BMMA-SL8001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Solder Contacts</li> <li>• Field Installable</li> <li>• IP 68</li> <li>• △ Available in 3, 4 and 5 Pins</li> </ul>		 <p>T Cable</p> <p>UPON REQUEST</p>  <p>T Adaptor</p>
 <p><b>2</b></p> <p>LTW12D-△PFFS-SH8△</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Rear Mounting</li> <li>• Solder Contacts</li> <li>• IP 68</li> <li>• △ Available in 3, 4 and 5 Pins</li> <li>• △ Means Different Versions</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p>LTW12D-△BMMB-SL7001 LTW12D-△BMMB-SR7001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Screw in Termination</li> <li>• 180° or 90° Field Installable</li> <li>• IP 67</li> <li>• △ Available in 4 and 5 Pins</li> </ul>		<p>UPON REQUEST</p>  <p>I Adaptor</p>
		 <p>LTWSD-△000-M00-YSBXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Y Cable Adaptor</li> <li>• PU Cable</li> <li>• IP 68</li> <li>• △ 5A: 4 and 5</li> </ul>		<p>UPON REQUEST</p>  <p>Y Adaptor</p>

Panel (Chassis) Mount		Mating Parts of 1 & 2		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>1</b></p> <p><b>LTW12D-△PMMS-SF8△</b>  <b>LTW12D-△PMMP-SF8△</b>  <b>LTW12D-3PMMS-SF8△</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Hexagonal Backshell</li> <li>• Front Mounted</li> <li>• Solder or PCB Contacts</li> <li>• IP 68</li> <li>• △ Available in 3, 4 and 5 Pins</li> <li>• △ Means Different Versions</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p>LTW12D-△BFFM-SL8△XX                  LTW12D-△BFFM-SR8△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• 180° or 90° In-Line Molded Type (Cable to Cable) without SR</li> <li>• IP 68</li> <li>• △ Available in 4 and 5 Pins</li> <li>• △ Available in PVC or PU Cable</li> </ul>		 <p>Cap-Screw (for Female)</p>
			 <p>LTW12D-△BFFA-SL8001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Solder Contacts</li> <li>• Field Installable</li> <li>• IP 68</li> <li>• △ Available in 3, 4 and 5 Pins</li> </ul>	 <p>T Cable</p>
 <p><b>2</b></p> <p><b>LTW12D-△PMMS-SH8△</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Rear Mounted</li> <li>• Solder Contacts</li> <li>• IP 68</li> <li>• △ Available in 3, 4 and 5 Pins</li> <li>• △ Means Different Versions</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p>LTW12D-△BFFB-SL7001                  LTW12D-△BFFB-SR7001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Screw in Termination</li> <li>• 180° or 90° Field Installable</li> <li>• IP 67</li> <li>• △ Available in 4 and 5 Pins</li> </ul>	 <p>T Adaptor</p>	 <p>Cap-Screw (for Male)</p>
			 <p>LTWSD-△000-F00-YSBXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Y Cable Adaptor</li> <li>• PU Cable</li> <li>• IP 68</li> <li>• △ 5A: 4 and 5</li> </ul>	 <p>I Adaptor</p>
			 <p>Y Adaptor</p>	

Male Connector		Mating Parts of 1~3		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>1</b></p> <p><b>LTWSDP-△BMMM-SL8△XX</b>  <b>LTWSDP-△BMMM-SR8△XX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• 180° or 90° In-Line Molded Type (Cable to Cable) without SR</li> <li>• PVC or PU Cable</li> <li>• IP 68</li> <li>• △ Available in 4 and 5 Pins</li> <li>• △ Available in PVC or PU Cble</li> </ul>		 <p>LTWSDP-△BFFM-SL8△XX                  LTWSDP-△BFFM-SR8△XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type without SR</li> <li>• 180° or 90° In-Line Molded Type (Cable to Cable) without SR</li> <li>• IP 68</li> <li>• △ Available in 4 and 5 Pins</li> <li>• △ Available in PVC or PU Cable</li> </ul>		 <p>Cap-Screw (for Male)</p>
			 <p>LTWSDP-△BFFA-SL8001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Solder Contacts</li> <li>• Field Installable</li> <li>• IP 68</li> <li>• △ Available in 3, 4 and 5 Pins</li> </ul>	
 <p><b>2</b></p> <p><b>LTWSDP-△BMMA-SL8001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Solder Contacts</li> <li>• Field Installable</li> <li>• IP 68</li> <li>• △ Available in 3, 4 and 5 Pins</li> </ul>		 <p>LTWSDP-△BFFA-SL8001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Solder Contacts</li> <li>• Field Installable</li> <li>• IP 68</li> <li>• △ Available in 3, 4 and 5 Pins</li> </ul>		
			 <p>LTWSDP-△BFFB-SL7001                  LTWSDP-△BFFB-SR7001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Screw in Termination</li> <li>• 180° or 90° Field Installable</li> <li>• IP 67</li> <li>• △ Available in 4 and 5 Pins</li> </ul>	
 <p><b>3</b></p> <p><b>LTWSDP-△BMMB-SL7001</b>  <b>LTWSDP-△BMMB-SR7001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Screw in Termination</li> <li>• 180° or 90° Field Installable</li> <li>• IP 67</li> <li>• △ Available in 4 and 5 Pins</li> </ul>		 <p>LTWSDP-△BFFB-SL7001                  LTWSDP-△BFFB-SR7001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Screw in Termination</li> <li>• 180° or 90° Field Installable</li> <li>• IP 67</li> <li>• △ Available in 4 and 5 Pins</li> </ul>		 <p>Cap-Screw (for Female)</p>
				

Male Connector		Mating Parts of 1 & 2		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>1</b></p> <p><b>LTW12-05PFIS-SF8</b>   <b>LTW12-05PFIP-SF8</b> </p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Hexagonal Backshell</li> <li>• Front Mounted</li> <li>• Solder or PCB Contacts</li> <li>• IP 68</li> <li>•  Means Different Versions</li> <li>• 5A: 5</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p>LTW12-05AMIM-SL7                       LTW12-05AMIM-SR7 </p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• 180° or 90° In-Line Molded Type (Cable to Cable) with SR</li> <li>• IP 67</li> <li>•  Available in PVC or PU Cable</li> <li>• 5A: 5</li> </ul>	 <p>Cap-Screw (for Female)</p>  <p>Cap-Screw (for Male)</p>	
				 <p>LTW12-05BMIM-SL8                       LTW12-05BMIM-SR8 </p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• 180° or 90° In-Line Molded Type (Cable to Cable) without SR</li> <li>• IP 68</li> <li>•  Available in PVC or PU Cable</li> <li>• 5A: 5</li> </ul>
 <p><b>2</b></p> <p><b>LTW12-05PFIS-SH8</b> </p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Rear Mounting</li> <li>• Solder Contacts</li> <li>• IP 68</li> <li>•  Means Different Versions</li> <li>• 5A: 5</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p>LTW12-05BMIA-SL8001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Solder Contacts</li> <li>• Field Installable</li> <li>• IP 68</li> <li>• 5A: 5</li> </ul>	 <p>T Adaptor</p> <p><b>UPON REQUEST</b></p>  <p>I Adaptor</p> <p><b>UPON REQUEST</b></p>  <p>Y Adaptor</p>	
		 <p>LTWSI-050000-M00-YSBXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Y Cable Adaptor</li> <li>• PVC or PU Cable</li> <li>• IP 68</li> <li>• 5A: 5</li> </ul>	<p><b>UPON REQUEST</b></p>  <p>Y Adaptor</p>	

Male Connector		Mating Parts of 1 & 2		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>1</b></p> <p><b>LTW12-05PMIS-SF8</b>   <b>LTW12-05PMIP-SF8</b> </p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Hexagonal Backshell</li> <li>• Front Mounted</li> <li>• Solder or PCB Contacts</li> <li>• IP 68</li> <li>•  Means Different Versions</li> <li>• 5A: 5</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p>LTW12-05AFIM-SL7                       LTW12-05AFIM-SR7 </p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• 180° or 90° In-Line Molded Type (Cable to Cable) with SR</li> <li>• IP 67</li> <li>•  Available in PVC or PU Cable</li> <li>• 5A: 5</li> </ul>	 <p>Cap-Screw (for Female)</p>  <p>Cap-Screw (for Male)</p>	
				 <p>LTW12-05BFIM-SL8                       LTW12-05BFIM-SR8 </p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• 180° or 90° In-Line Molded Type (Cable to Cable) without SR</li> <li>• IP 68</li> <li>•  Available in PVC or PU Cable</li> <li>• 5A: 5</li> </ul>
 <p><b>2</b></p> <p><b>LTW12-05PMIS-SH8</b> </p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Rear Mounted</li> <li>• Solder Contacts</li> <li>• IP 68</li> <li>•  Means Different Versions</li> <li>• 5A: 5</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p>LTW12-05BFIA-SL8001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Solder Contacts</li> <li>• Field Installable</li> <li>• IP 68</li> <li>• 5A: 5</li> </ul>	 <p>T Adaptor</p> <p><b>UPON REQUEST</b></p>  <p>I Adaptor</p> <p><b>UPON REQUEST</b></p>  <p>Y Adaptor</p>	
		 <p>LTWSI-050000-F00-YSBXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Y Cable Adaptor</li> <li>• PVC or PU Cable</li> <li>• IP 68</li> <li>• 5A: 5</li> </ul>	<p><b>UPON REQUEST</b></p>  <p>Y Adaptor</p>	

Male Connector		Mating Parts of 1 & 2		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <b>1</b> LTW12P-05BMIM-SL8△XX LTW12P-05BMIM-SR8△XX <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• 180° or 90° In-Line Molded Type (Cable to Cable) without SR</li> <li>• △ Available PVC or PU Cable</li> <li>• IP 67 or IP 68</li> <li>• 5A: 5</li> </ul>		 LTW12P-05BFIM-SL8△XX LTW12P-05BFIM-SR8△XX <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Screw Type without SR</li> <li>• 180° or 90° In-Line Molded Type (Cable to Cable) without SR</li> <li>• △ Available in PVC or PU Cable</li> <li>• IP 67 or IP 68</li> <li>• 5A: 5</li> </ul>		 Cap-Screw (for Male)
 <b>2</b> LTW12P-05BMIA-SL8001 <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Solder Contacts</li> <li>• Field Installable</li> <li>• IP 68</li> <li>• 5A: 5</li> </ul>		 LTW12P-05BFIA-SL8001 <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Screw Type</li> <li>• Solder Contacts</li> <li>• Field Installable</li> <li>• IP 68</li> <li>• 5A: 5</li> </ul>		 Cap-Screw (for Female)

XXX - XX X X X X - X X X XXX

**Number of Contacts**

- 01 – 01 Pin

**Style**

- A – For Cable With S/R
- B – For Cable Without S/R
- P – For Panel Front Mounting
- R – For Panel Rear Mounting
- D – For Box Panel

**Specification**

- SPC – Solar Power 30A

**Connector Style**

- M – Male Connector
- F – Female Connector
- C – Female And Male Connector

**Contact Type**

- M – Male
- F – Female
- C – Female And Male

**Assembly Style**

- M – Molding Type
- A – Assembly Type
- P – PCB Type (180°)
- S – Solder or Crimp Type

**Mating Style**

- L – Lock
- S – Screw
- Q – Quick

**Back Shell**

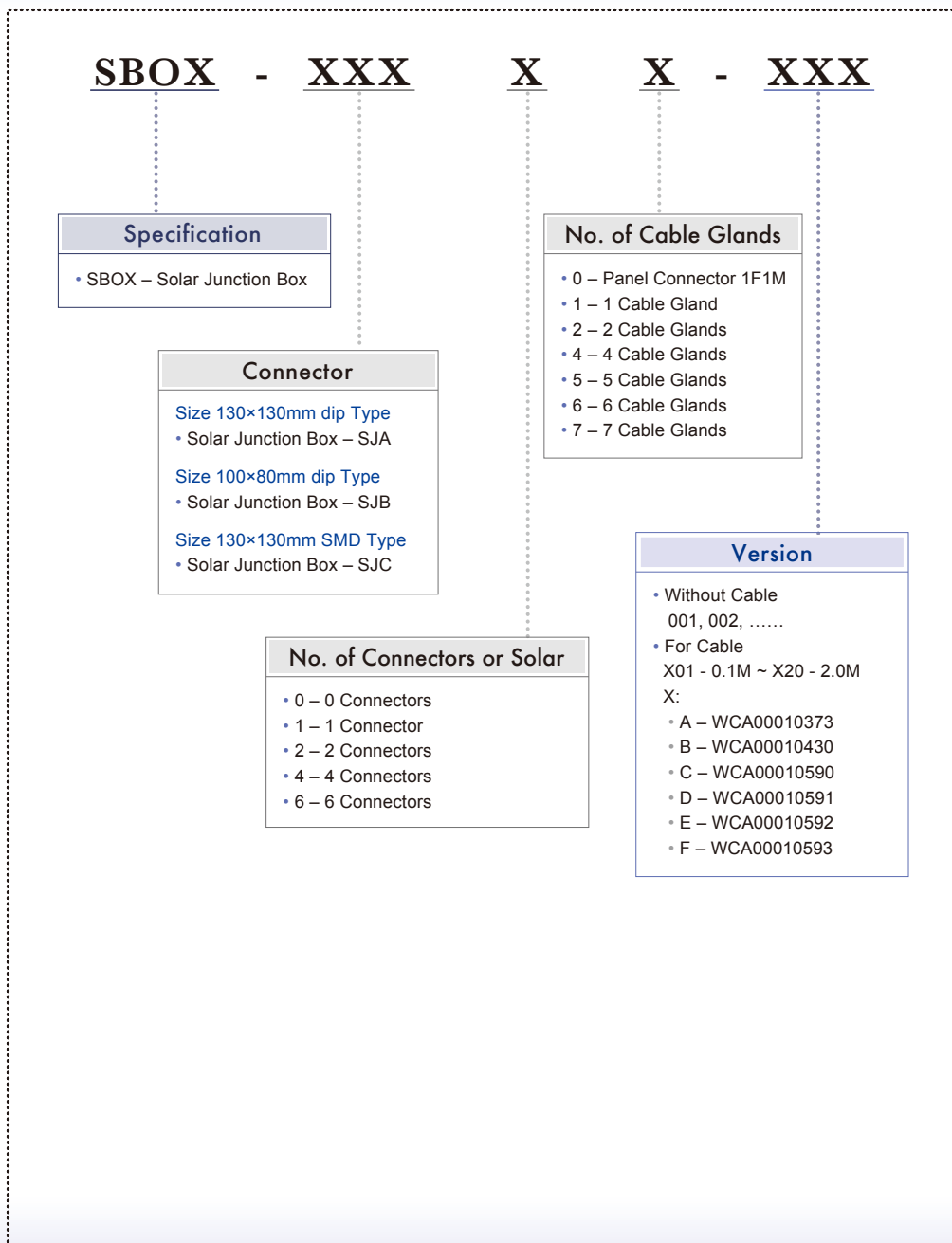
- L – Straight Mounting (180° For Cable Type)
- C – Circular Straight (180° For Panel Type)

**Waterproof Rating**

- 6 = IP 66
- 7 = IP 67
- 8 = IP 68

**Version**

- 000 : Phantom
- Without Cable  
001, 002,.....
- For Cable  
X01 - 0.1M ~ X20 - 2.0M
- X:  
 • A – WCA00010373  
 • B – WCA00010430  
 • C – WCA00010590  
 • D – WCA00010591  
 • E – WCA00010592  
 • F – WCA00010593

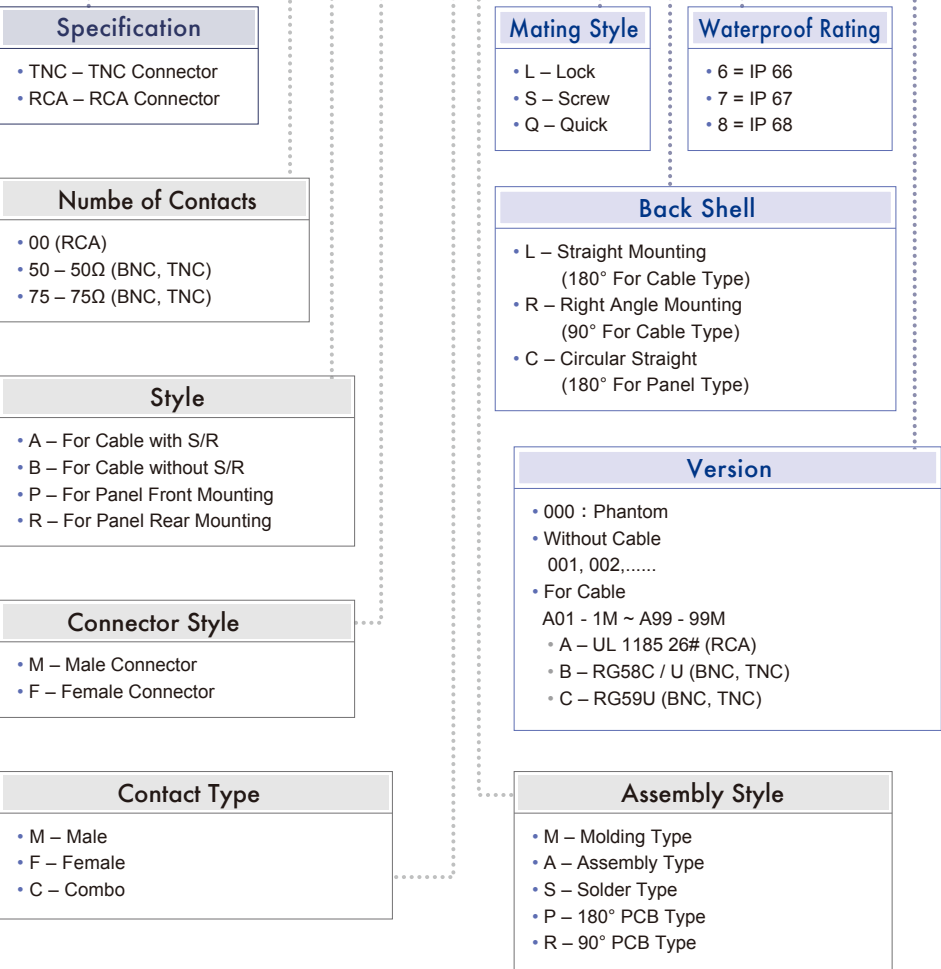


## SPECIFICATIONS

No. Specifications	Standard Value	
<b>01. Description</b>	6 Core,3 Core	Panel Mount, Field Installable, with snap-in locking
<b>02. Current Rating</b>	8A (Current through diode) 20A (Current not through diode)	30A
<b>03. Material</b>	Contacts: Copper Alloy, Gold Platd Body: PPO	Contacts: Copper Alloy, Gold Platd Body: PPO
<b>04. Temperature Range</b>	-40°C to +90°C	-40°C to +90°C
<b>05. Waterproof Rating</b>	IP66	IP67
<b>06. Contact Resistance</b>	≤5mΩ	≤5mΩ
<b>07. Insulation Resistance</b>	≥1000MΩ / 1 minute	≥1000MΩ / 1 minute
<b>08. Durability</b>	non	50 cycles
<b>09. Work Voltage</b>	200V DC	200V DC
<b>10. Rated voltage</b>	1000V DC	1000V DC
<b>11. Rated impulse Voltage</b>	8kV / 1minute	6Kv / 1minute
<b>12. Connectable Conductors</b>	4mm2 / 12 AWG	4mm2 / 12 AWG
<b>13. Flame class</b>	UL94-V0	UL94-V0
<b>14. Body Dimensions</b>	A: 130 x 130 x 43 mm B: 83 x 107 x 43 mm	Panel: Ø20.2 x 56 Assy.: Ø20.2 x 71 Adapter: 20.2 x 35.5 x 61
<b>15. Certificate No.</b>	R 50156073	R 50152733

Male Connector		Mating Parts of 1~6		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
	<b>1</b> LTWSPC-01RMFS-LC7001 <b>FEATURES:</b> • Male Connector • Rear Mounting • 180° Solder or Crimp Type • IP 67 • TUV Certified		LTWSPC-01BFMA-LL7001 <b>FEATURES:</b> • Female Connector • Assembly Type • Without SR • IP 67 • TUV Certified	
	<b>2</b> LTWSPC-01RFMS-LC7001 <b>FEATURES:</b> • Female Connector • Rear Mounting • 180° Solder or Crimp Type • IP 67 • TUV Certified			
	<b>3</b> LTWSBOX-SJA20-001 <b>FEATURES:</b> • 6 Cord Box with Male and Female Connectors • Without Cable • TUV Certified		LTWSPC-01BMFA-LL7001 <b>FEATURES:</b> • Male Connector • Assembly Type • Without SR • IP 67 • TUV Certified	
	<b>4</b> LTWSBOX-SJB20-001 <b>FEATURES:</b> • 2 Cord Box with Male and Female Connectors • Without Cable • TUV Certified			
	<b>5</b> LTWSBOX-SJA22-△XX <b>FEATURES:</b> • 6 Cord Box with Cable Gland • Male and Female Connectors (please refer to mating parts) • Female Connector x 1 • Modling with Cable • △ Means Different Cable Types (Upon Request) • TUV Certified		LTWSPC-01BMFA-LL7△XX <b>FEATURES:</b> • Female Connector with Cable • Assembly Type • Without SR • IP 67 • △ Means Different Cable Types (Upon Request) • TUV Certified	
	<b>6</b> LTWSBOX-SJB22-△XX <b>FEATURES:</b> • 2 Cord Box with Cable Gland • Male and Female Connectors (please refer to mating parts) • Modling with Cable • △ Means Different Cable Types (Upon Request) • TUV Certified		LTWSPC-01BFMA-LL7△XX <b>FEATURES:</b> • Female Connector with Cable • Assembly Type • Without SR • IP 67 • Cable Length 1 to 100 Meters • △ Means Different Cable Types (Upon Request) • TUV Certified	

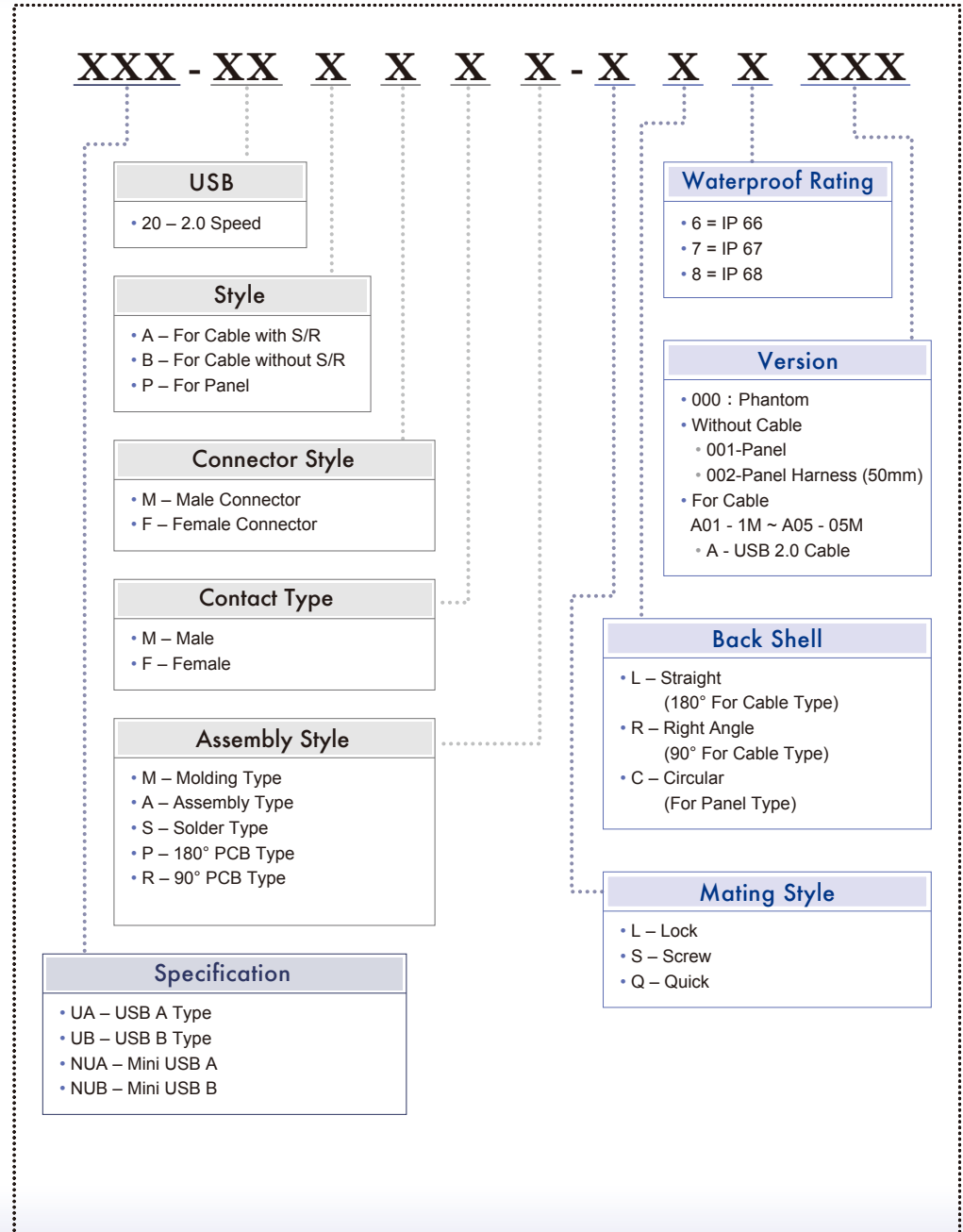
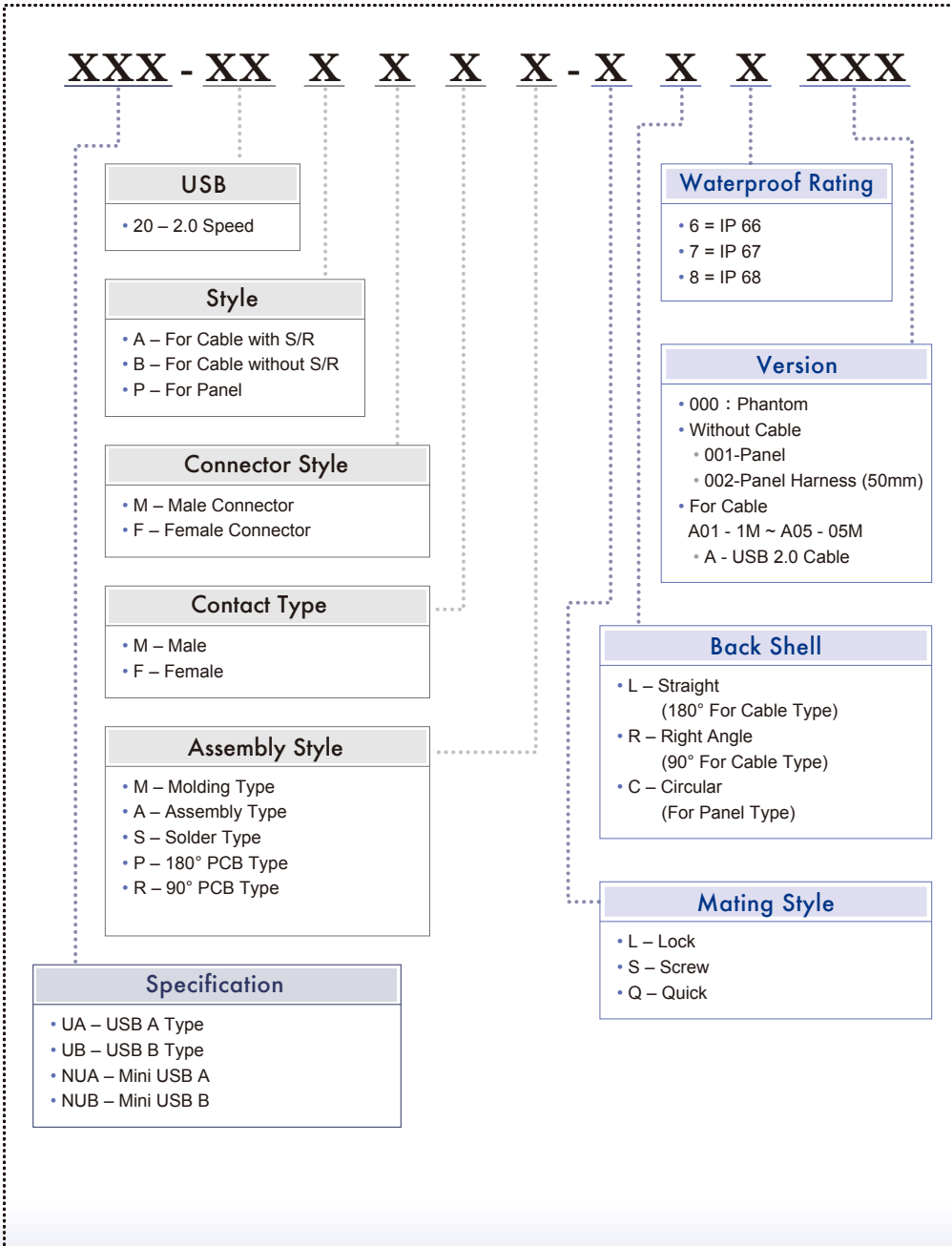
XXX - XX X X X X - X X XXX



SPECIFICATIONS

No.	Specifications	Standard Value
01. Identifications	TNC RCA	
02. Description	Panel Mount, Molded with Cable	
03. Impedance	TNC: 50Ω, 75Ω	
04. Material	Contacts: Copper Alloy, Nickel Plated / Gold Plated Connector Body: Teflon (TNC), PBT (RCA)	
05. Temperature Range	Cable: -20°C to +80°C Connector Body: -40°C to +105°C	
06. Waterproof Rating	IP66 and IP67	
07. Contact Resistance	≤30mΩ	
08. Insulation Resistance	TNC: ≥5000mΩ RCA: ≥100mΩ at DC 500V	
09. Breakdown Voltage	RCA: ≥AC 500V / 1 Minute	
10. Standard Cable Length (for Molded Cable)	1-99M (Standard Cable: RG58C / U or RG59U)	

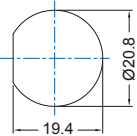

Male Connector		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
	<p><b>1</b></p> <p>LTWTNC-△PMFS-SC△001</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• TNC Connector</li> <li>• Screw Type</li> <li>• Front Mounting</li> <li>• Solder Contacts</li> <li>• IP 67</li> <li>• △50Ω or 75Ω</li> <li>• △IP 67</li> </ul>		<p>LTWTNC-△AFMM-SL7XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• TNC Connector</li> <li>• Screw Type</li> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• IP 67</li> <li>• △50Ω or 75Ω</li> </ul>	 Waterproof Cover with Chain
	<p><b>2</b></p> <p>LTWTNC-△PMFM-SL7XX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• TNC Connector</li> <li>• Screw Type</li> <li>• Front Mounting</li> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• IP 67</li> <li>• △50Ω or 75Ω</li> </ul>		<p>• Only for <b>1</b> and <b>2</b></p>	
	<p><b>3</b></p> <p>LTWRCA-00AMFM-QL6AX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• RCA Connector</li> <li>• Quick Type</li> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• IP 66</li> </ul>		<p>LTWRCA-00AFMM-QL6AXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• RCA Connector</li> <li>• Quick Type</li> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• IP 66</li> </ul> <p>• Only for <b>3</b></p>	



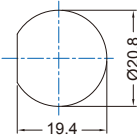


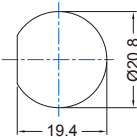


SPECIFICATIONS

No.	Specifications	Standard Value
01. Identifications		USB A Type USB B Type
02. Description		Panel Mount, Molded with Cable and Field Installable
03. Current Rating		USB: 1.5A Mini USB: 1A
04. Speed		480Mbps
05. Material		Contacts: Copper Alloy, Gold Plated Connector Body: PBT UL94V-0
06. Temperature Range		-20°C to +80°C
07. Waterproof Rating		IP67, IP68
08. Contact Resistance		≤30mΩ Max
09. Insulation Resistance		≥1000mΩ Min
10. Breakdown Voltage		≥AC 500V / 1 Minute
11. Standard Cable Length (for Molded Cable)		1-5M (Standard Cable: USB2.0)

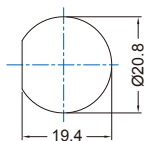
Male Connector		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>1</b></p> <p><b>LTWUA-20PMFP-LC7</b>△</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• USB A Type</li> <li>• Male Connector</li> <li>• PCB 180°</li> <li>• With or without Flying Lead</li> <li>• IP 67</li> <li>• △ Means Different Versions</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p><b>LTWUA-20AFMM-L</b>△7AXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• USB A Type</li> <li>• Female Connector</li> <li>• Cable Length 1 to 5 Meters</li> <li>• IP 67</li> <li>• △ 180° or 90° In-line Molded Type</li> <li>• With SR</li> </ul>		 <p>Waterproof Cover with Chain</p>
 <p><b>2</b></p> <p><b>LTWUB-20PMFP-LC7</b>△</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• USB B Type</li> <li>• Male Connector</li> <li>• PCB 180°</li> <li>• With or without Flying Lead</li> <li>• IP 67</li> <li>• △ Means Different Versions</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p><b>LTWUB-20AFMM-L</b>△7AXX</p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• USB B Type</li> <li>• Female Connector</li> <li>• Cable Length 1 to 5 Meters</li> <li>• IP 67</li> <li>• △ 180° or 90° In-line Molded Type</li> <li>• With SR</li> </ul>		 <p>Waterproof Cover with Rubber Lead</p>

Male Connector		Mating Parts 1~3		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>1</b></p> <p><b>LTWUA-20PMFP-SC8△XX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• USB A Type</li> <li>• Male Connector</li> <li>• PCB 180°</li> <li>• IP 68</li> <li>• △ With or without Flying Lead</li> </ul> <p><b>PANEL CUT-OUT</b></p> 				 <p>Waterproof Cover with Chain</p>
 <p><b>2</b></p> <p><b>LTWUA-20AMFM-SL7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• USB A Type</li> <li>• Male Connector</li> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• Cable Length 1 to 5 Meters</li> <li>• IP 67</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p><b>LTWUA-20BFMM-SL7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• USB A Type</li> <li>• Female Connector</li> <li>• In-line Molded Type</li> <li>• Without SR</li> <li>• Cable Length 1 to 5 Meters</li> <li>• IP 67</li> </ul>		 <p>Waterproof Cover with Rubber Lead</p>
 <p><b>3</b></p> <p><b>LTWUA-20BMFA-SL8001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• USB A Type</li> <li>• Male Connector</li> <li>• Field Installable</li> <li>• Without Cable</li> <li>• IP 68</li> </ul> <p><b>PANEL CUT-OUT</b></p> 				 <p>Waterproof Cover with Fish Line</p>
				 <p>Waterproof Box</p>

Male Connector		Mating Parts 4~6		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
 <p><b>4</b></p> <p><b>LTWUB-20PMFP-SC8△XX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• USB B Type</li> <li>• Male Connector</li> <li>• PCB 180°</li> <li>• IP 68</li> <li>• △ With or without Flying Lead</li> </ul> <p><b>PANEL CUT-OUT</b></p> 				 <p>Waterproof Cover with Chain</p>
 <p><b>5</b></p> <p><b>LTWUB-20AMFM-SL7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• USB B Type</li> <li>• Male Connector</li> <li>• In-line Molded Type</li> <li>• With SR</li> <li>• Cable Length 1 to 5 Meters</li> <li>• IP 67</li> </ul> <p><b>PANEL CUT-OUT</b></p> 		 <p><b>LTWUB-20BFMM-SL7AXX</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• USB B Type</li> <li>• Female Connector</li> <li>• In-line Molded Type</li> <li>• Without SR</li> <li>• Cable Length 1 to 5 Meters</li> <li>• IP 67</li> </ul>		 <p>Waterproof Cover with Rubber Lead</p>
 <p><b>6</b></p> <p><b>LTWUB-20BMFA-SL8001</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>• USB B Type</li> <li>• Male Connector</li> <li>• Field Installable</li> <li>• Without Cable</li> <li>• IP 68</li> </ul> <p><b>PANEL CUT-OUT</b></p> 				 <p>Waterproof Cover with Fish Line</p>
				 <p>Waterproof Box</p>

Male Connector		Mating Parts 1 ~ 4		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
	<b>1</b> LTWNUB-20PMFP-SC7001 <b>FEATURES:</b> • Male Connector • PCB 180° • IP 67			 Waterproof Cover with Chain
	<b>2</b> LTWNUB-20PMFR-SC7001 <b>FEATURES:</b> • Male Connector • PCB 90° • IP 67			
	<b>3</b> TWNUB-20BMFA-SL7001 <b>FEATURES:</b> • Male Connector • Field Installable • Without SR • IP 67		LTWNUB-20AFMM-SL7AXX <b>FEATURES:</b> • Female Connector • In-line Molded Type (Cable to Cable) with SR • Cable Length 5 Meters Max • IP 67	 Waterproof Cover with Rubber Lead
	<b>4</b> LTWNUB-20AMFM-SL7AXX <b>FEATURES:</b> • Male Connector • In-line Molded Type (Cable to Cable) with SR • Cable Length 5 Meters Max • IP 67			 Waterproof Cover

PANEL CUT-OUT



XXX - XX X X X X - X X X XXX

Number of Contacts

- 02, 03, ..... Pin

Style

- A – For Cable with S/R
- B – For Cable without S/R
- P – For Panel Front Mounting
- R – For Panel Rear Mounting

Specification

- ZB - Ø18 Size Current Rating 10A

Connector Style

- M – Male Connector
- F – Female Connector

Contact Type

- M – Male
- F – Female
- C – Combo

Assembly Style

- M – Molding Type
- A – Assembly Type
- S – Solder Type
- P – 180° PCB Type
- R – 90° PCB Type
- B – Screw in Type

Mating Style

- L – Lock
- S – Screw
- Q – Quick

Back Shell

- L – Straight (180° for Cable Type)
- R – Right Angle (90° for Cable Type)
- C – Circular (For Panel Type)
- S – Square (For Panel Type)

Waterproof Rating

- 6 = IP 66
- 7 = IP 67
- 8 = IP 68

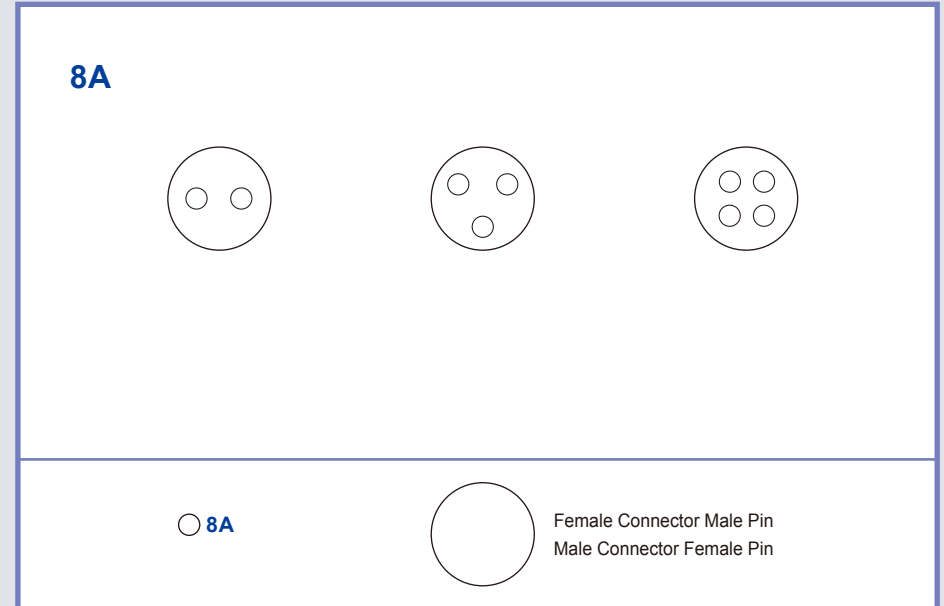
Version

- 000 : Phantom
- Without Cable 001, 002,.....
- For Cable A01 - 1M ~ A99 - 99M  
• A – 18AWG Cable




**SPECIFICATIONS**

No.	Specifications	Standard Value
01.	<b>Identifications</b>	Ø18mm Size
02.	<b>Description</b>	Panel Mount, Molded with Cable
03.	<b>Current Rating / Pin Arrangements</b>	8A: 2 to 4
04.	<b>Material</b>	Contacts: Copper Alloy Connector Body: PVC
05.	<b>Temperature Range</b>	Connector: -20°C to +80°C
06.	<b>Waterproof Rating</b>	IP67
07.	<b>Insulation Resistance</b>	≥100MΩ at DC 500V
08.	<b>Breakdown Voltage</b>	>AC1.5KV / 1Minute
09.	<b>Standard Cable Length (for Molded Cable)</b>	1, 2, 5, 10M

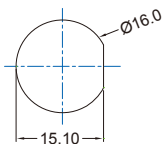
**CONTACT PIN ARRANGEMENTS**



# 149 KSZ Circular Connector Panel (8A)

Male & Female Connector		Mating Parts		Accessories
CONNECTOR	P/N	CONNECTOR	P/N	
<b>Female Cable</b> 	<b>KSZZB-△AFMM-LL7AXX</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Lock Type, Crimp Contacts</li> <li>• 180° In-line Molded Type</li> <li>• IP 67</li> <li>• △8A: 02, 03, 04</li> </ul>		<b>KSZZB-△AMFM-LL7AXX</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Lock Type</li> <li>• 180 In-line Molded Type</li> <li>• With SR</li> <li>• PVC Cable</li> <li>• IP 67</li> <li>• △8A: 02, 03, 04</li> </ul>	
			<b>KSZZB-△RMFM-LC7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Lock Type</li> <li>• Rear Mounted with Wire harness</li> <li>• IP 67</li> <li>• △8A: 02, 03, 04</li> </ul>	
<b>Male Cable</b> 	<b>KSZZB-△AMFM-LL7AXX</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Lock Type, Crimp Contacts</li> <li>• 180° In-line Molded Type</li> <li>• IP 67</li> <li>• △8A: 02, 03, 04</li> </ul>		<b>KSZZB-△AFMM-LL7AXX</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Lock Type</li> <li>• 180 In-line Molded Type</li> <li>• With SR</li> <li>• PVC Cable</li> <li>• IP 67</li> <li>• △8A: 02, 03, 04</li> </ul>	
<b>Male panel</b> 	<b>KSZZB-△RMFM-LC7001</b> <b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Lock Type, Crimp Contacts</li> <li>• Rear Mounted with Wire harness</li> <li>• IP 67</li> <li>• △8A: 02, 03, 04</li> </ul>			

PANEL CUT-OUT



# Illustration for Amphenol LTW PV Solution



- 1 LTWSPC-01RMFS-LC7001
- 2 LTWSPC-01RFMS-LC7001
- 3 LTWSPC-01BMFA-LL7001  
LTWSPC-01BMFA-LL7XXX
- 4 LTWSPC-01BFMA-LL7001  
LTWSPC-01BFMA-LL7XXX
- 5 LTWCAP-DSOMMLC1
- 6 LTWCAP-DSOMFLC1
- 7 LTWSL-000000-HHB-YL001
- 8 LTWSL-000000-BBH-YL001
- 9 TOL-151701 (Tooling)
- 10 TOL-151702 (Tooling)

## Adapter Type

- 1 Female to 2 Male
- 1 Male to 2 Female

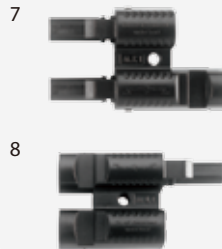
## Assembly Type

- Male Connector + Cable
- Female Connector + Cable

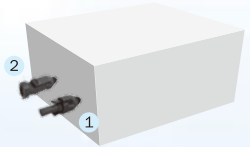
## Panel Type



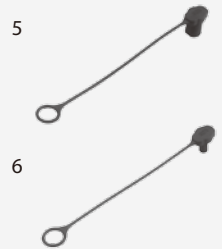
## Adapter Type



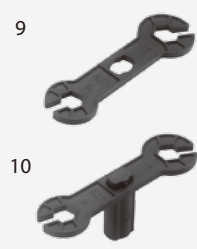
## Assembly Type



## Cap Type



## Tooling





**B.C.E. s.r.l.**  
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Tel. +39 0536 811.616 r.a. - Fax +39 0536 811.500  
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