

Glossary

⌵ IP: IP65 • IP66 • IP67 • ALTW IP 68 (According to IEC 60950 standard.)

The IP Rating- Ingress Protection Rating, sometimes also interpreted as International Protection Rating, classifies and rates the degree of protection provided against the intrusion of solid objects (including body parts like hands and fingers), dust, accidental contact, and water in mechanical casings and with electrical enclosures.

The standard aims to provide users more detailed information than vague marketing terms such as waterproof.

IP65: No ingress of dust / Protected against low pressure jets of water.

IP66: No ingress of dust / Protected against powerful water jets.

IP67: No ingress of dust / Protected against harmful effects caused in 1M water within 30mins.

IP68: No ingress of dust / Protected against harmful effects caused in 1M water within 24hrs.

IP68 (Micro USB) : No ingress of dust / Protected against harmful effects caused in 1M water within 2hrs.

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⌵ Waterproof mated / unmated

Mated Waterproof:

Waterproof is only assured when mated & locked tightly to its counterpart.

Unmated Waterproof:

Standalone waterproof or waterproof is assured even without its counterpart. The water will not get through the inner portion of the exposed connector as it is entirely sealed.

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⌵ UV Resistance

Being resistant to ultra violet (UV) light or sunlight. UV light, or sunlight, will cause non-resistant materials and surfaces to fade or discolor.

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⌵ IEC

Founded in 1906, the IEC (International Electrotechnical Commission) is the world's leading organization for the preparation and publication of International Standards for all electrical, electronic and related technologies. These are known collectively as "electrotechnology".

IEC provides a platform to companies, industries and governments for meeting, discussing and developing the International Standards they require. All IEC International Standards are fully consensus-based and represent the needs of key stakeholders of every nation participating in IEC work. Every member country, no matter how large or small, has one vote and a say in what goes into an IEC International Standard.

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⌵ UL 1977

These requirements cover single and multipole connectors, intended for factory assembly to copper or copper alloy conductors or printed wiring boards, for use in data, signal, control and power applications within and between electrical equipment.

ODVA

Founded in 1995, ODVA is a global association whose members are comprised of the world's leading automation companies. ODVA's mission is to advance open, interoperable information and communication technologies in industrial automation. ODVA recognizes its media independent network protocol, the Common Industrial Protocol or "CIP" – and the network adaptations of CIP – EtherNet/IP, DeviceNet, CompoNet and ControlNet – as its core technology and the primary common interest of its membership. ODVA's vision is to contribute to the sustainability and prosperity of the global community by transforming the model for information and communication technology in the industrial ecosystem.

- ALTW ODVA connectors on P8-11

NMEA 2000

NMEA 2000 is a protocol used to create a network of electronic devices—chiefly marine instruments—on a boat. Various instruments that meet the NMEA 2000 standard are connected to one central cable, known as a backbone. The backbone powers each instrument and relays data among all of the instruments on the network. This allows one display unit to show many different types of information. It also allows the instruments to work together, since they share data. NMEA 2000 is meant to be "plug and play" to allow devices made by different manufacturers to talk and listen to each other.

- ALTW NMEA2000 connectors on P14-1

Industrial Automation New Products

ALTW offers these all new Product features to IA and keeps on working at its best to satisfy the industries continuously growing field of applications:

- * M8/M12 Improved Cable Assy. with Hex nuts, overall molded connector and UL approved cables (for UL / CSA by Q2 2014)
- * M8/M12 Ruggedized Distribution Boxes (for UL / CSA by Q4 2013)
- * M12 High-Speed 8Pin (Up to 10GB Ethernet Application)
- * M8 / M12 Field Installable in IDC Contacts (Pressed-In Conn.)

Amphenol LTW's X-Lok waterproof connector

"Click" when locking, for effort-saving and speed up. ALTW has X-Lok version for "3 Point Lock".

- ALTW X-Lok connectors on P20-1

Amphenol LTW's 3 Point Lock waterproof connector

To enhance the efficiency and improve the stability of Mating with Lock function, ALTW has the 3 Point Lock design to have better connector mating function.

ALTW provides Cable-to-Cable currently.

└ Amphenol LTW's RBL waterproof connector

Audible "Click" when locking; push both sides of the "Snap Lock" when unlocking. The creative design is effort-saving and speeds up the traditional connector locking nut function; furthermore, "Dual Snap Lock" is durable and protects from accidental loosening.

- ALTW RBL connectors on P19-1
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└ Amphenol LTW waterproof connector : Mating with lock

"Secured connector mating" product locking mechanisms provides complete connector fastening for assured continuous transmission and reliable waterproof function.

- ALTW Power connector (PWII): P2-13 / P2-14
 - ALTW VTC I T-Junction PT: P15-10
 - ALTW VTC I SMC: P15-10
 - ALTW BMC: P15-13
 - Cable Joiner: P21-26
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└ Amphenol LTW's Hybrid waterproof connector

A connector that contains contacts for more than one type of service. Note: Examples of hybrid connectors are those that have contacts for both optical fibers and twisted pairs, electric power and twisted pairs, or shielded and unshielded twisted pairs.

- ALTW Hybrid connectors
Circular series: P1-1
(5A+2A / 10A+2A / 10A+5A / 20A+2A / 20A+5A)
Power series: P2-1
(20A+2A)

Appendix

Standard Cable List

Product Series	Item No.	Jacket	Color	UL No.	Cable Spec.	Cable OD	Note
Circular	WCA0487UV01	PVC	Black	UL2464	26AWG*4C+Drain+AL.Mylar	4.8	Circular Mini Size / 2A / 4pin
Circular	WCA0486UV01	PVC	Black	UL2464	26AWG*5C+Drain+AL.Mylar	4.8	Circular Mini Size / 2A / 5pin
Circular	WCA0540UV01	PVC	Black	UL2464	26AWG*6C+Drain+AL.Mylar	5.0	Circular Mini Size / 2A / 6pin
Circular	WCA0072UV01	PVC	Black	UL2464	24AWG*2C+Drain+AL.Mylar	4.2	Circular Mini Size / 5A / 2pin Circular Standard Size / 5A / 2pin
Circular	WCA0549UV01	PVC	Black	UL2464	24AWG*3C+Drain+AL.Mylar	4.5	Circular Mini Size / 5A / 3pin Circular Standard Size / 5A / 3pin
Circular	WCA0219UV01	PVC	Black	UL2464	24AWG*4C+Drain+AL.Mylar	5.8	Circular Mini Size / 2A / 4pin Circular Standard Size / 5A / 4pin
Circular	WCA0217UV01	PVC	Black	UL2464	24AWG*6C+Drain+AL.Mylar	5.8	Circular Mini Size / 2A / 6pin Circular Standard Size / 5A / 6pin
Circular	WCA0543UV01	PVC	Black	UL2464	26AWG*10C+Drain+AL.Mylar	6.0	Circular Standard Size / 2A / 10pin
Circular	WCA0544UV01	PVC	Black	UL2464	26AWG*12C+Drain+AL.Mylar	6.0	Circular Standard Size / 2A / 12pin
Circular	WCA00010897	PVC	Black	UL1277,UL1581&UL83	18AWG*3C	8.5	Circular Standard Size / 5A / 3pin
Circular	WCA00010898	PVC	Black	UL1277,UL1581&UL83	18AWG*4C	9.2	Circular Standard Size / 5A / 4pin
Circular	WCA0551UV01	PVC	Black	UL2464	24AWG*5C+Drain+AL.Mylar	5.0	Circular Standard Size / 5A / 5pin
Circular	WCA0124UV01	PVC	Black	UL2464	20AWG*2C+Drain+AL.Mylar	5.8	Circular Standard Size / 10A / 2pin
Circular	WCA0489UV01	PVC	Black	UL2464	20AWG*3C+AL.Mylar	5.0	Circular Standard Size / 10A / 3pin
Circular	WCA0584UV01	PVC	Black	UL2464	26AWG*6C+24AWG*2C+Drain+AL.Mylar	5.5	Circular Standard Size / 5A+2A / 8pin
Circular	WCA0585UV01	PVC	Black	UL2464	24AWG*4C+20AWG*2C+Drain+AL.Mylar	6.0	Circular Standard Size / 10A+5A / 6pin
Circular	WCA0087UV01	PVC	Black	UL2464	24AWG*7C+Drain+AL/Mylar	5.8	Circular Standard Size / 5A / 7pin Circular Middle Size / 5A / 7pin
Circular	WCA0003UV01	PVC	Black	UL2464	24AWG*8C+Drain+AL/Mylar	5.5	Circular Standard Size / 5A / 8pin Circular Middle Size / 5A / 8pin
Circular	WCA0575UV01	PVC	Black	UL2464	20AWG*4C+Drain+AL.Mylar	5.5	Circular Standard Size / 10A / 4pin Circular Middle Size / 10A / 4pin
Circular	WCA0528UV01	PVC	Black	UL2464	24AWG*9C+Drain+AL.Mylar	6.0	Circular Middle Size / 5A / 9pin
Circular	WCA0556UV01	PVC	Black	UL2464	24AWG*10C+Drain+AL.Mylar	6.5	Circular Middle Size / 5A / 10pin
Circular	WCA0557UV01	PVC	Black	UL2464	24AWG*12C+Drain+AL.Mylar	7.0	Circular Middle Size / 5A / 12pin Circular Middle Size / 5A+2A / 12pin
Circular	WCA0558UV01	PVC	Black	UL2464	24AWG*14C+Drain+AL.Mylar	7.0	Circular Middle Size / 5A / 14pin Circular Middle Size / 5A+2A / 14pin
Circular	WCA0576UV01	PVC	Black	UL2464	20AWG*5C+Drain+AL.Mylar	6.0	Circular Middle Size / 10A / 5pin
Circular	WCA0577UV01	PVC	Black	UL2464	20AWG*6C+Drain+AL.Mylar	6.5	Circular Middle Size / 10A / 6pin
Circular	WCA00010710	PVC	Black	UL2464	(2P*24AWG+Drain+AL)+3C*16AWG+Filler+Pa per	12.0	Circular Middle Size / 10A+2A / 8Pin
Circular	WCA0042UV01	PVC	Black	UL2464	24AWG*6C+20AWG*2C+Drain+AL.Mylar	6.0	Circular Middle Size / 10A+5A / 8pin Circular Others / 10A+5A / 8pin
Circular	WCA0560UV01	PVC	Black	UL2464	24AWG*18C+Drain+AL.Mylar	8.0	Circular Middle Size / 2A / 18pin Circular Large Size / 5A / 18pin
Circular	WCA0264UV01	PVC	Black	UL2464	16AWG*2C+Talcum	5.8	Circular Middle Size / 20A / 2pin Circular Large Size / 20A / 2pin
Circular	WCA0579UV01	PVC	Black	UL2464	16AWG*3C+Drain+AL.Mylar	7.5	Circular Middle Size / 20A / 3pin Circular Large Size / 20A / 3pin
Circular	WCA00010045	PVC	Black	UL2464	26AWG*22C+Drain+AL.Mylar	7.5	Circular Large Size / 2A / 20~22pin
Circular	WCA0285UV01	PVC	Black	UL2464	16AWG*4C+AL.Mylar	7.5	Circular Large Size / 20A / 4pin
Circular	WCA0263UV01	PVC	Black	UL2464	16AWG*5C+Talcum	7.8	Circular Large Size / 20A / 5pin
Circular	WCA0582UV01	PVC	Black	UL2464	16AWG*6C+Filler+Drain+AL.Mylar	9.5	Circular Large Size / 20A / 6pin
Circular	WCA0583UV01	PVC	Black	UL2464	16AWG*7C+Drain+AL.Mylar	9.5	Circular Large Size / 20A / 7pin
Circular	WCA00010876	PVC	Black	UL2586	(24AWG*1P+A)*2C+16AWG*3C+EA	10.0	Circular Large Size / 20A+2A / 8pin
Circular	WCA00010635	PVC	Black	UL2464	(24AWG*4P+Drain+AL)+16AWG*3C+Filler+Pa per	11.0	Circular Large Size / 20A+5A / 12pin
Circular	WCA0449UV01	PVC	Black	UL2464	26AWG*31C+Drain+AL.Mylar	9.0	Circular Macro Size / 5A / 31pin
Circular	WCA0577UV01	PVC	Black	UL2464	20AWG*6C+Drain+AL.Mylar	6.5	Circular RBL / 5A / 6pin
Circular	WCA0485XX01	PVC	Black	UL2464	14AWG*3C+Talcum	7.0	Circular X-Lock / 20A / 3pin

* Design and specification are subject to change without notice.

Appendix

Standard Cable List

Product Series	Item No.	Jacket	Color	UL No.	Cable Spec.	Cable OD	Note
Power	WCA0576UV01	PVC	Black	UL2464	20AWG*5C+Drain+AL.Mylar	6.0	Power / 8A / 5pin
Power	WCA0577UV01	PVC	Black	UL2464	20AWG*6C+Drain+AL.Mylar	6.5	Power / 8A / 6pin
Power	WCA00010049	PVC	Black	UL2464	20AWG*7C+Drain+AL.Mylar	6.5	Power / 8A / 7pin
Power	WCA0264UV01	PVC	Black	UL2464	16AWG*2C+Talcum	5.8	Power / 12A / 2pin
Power	WCA0579UV01	PVC	Black	UL2464	16AWG*3C+Drain+AL.Mylar	7.5	Power / 12A / 3pin
Power	WCA0285UV01	PVC	Black	UL2464	16AWG*4C+AL.Mylar	7.5	Power / 12A / 4pin
Power	WCA0485XX01	PVC	Black	UL2464	14AWG*3C+Talcum	7.0	Power / 20A / 3pin
Power	WCA00010846	PVC	Black	UL1277,UL1581&UL83	14AWG*3C	9.7	Power / 20A / 3pin
Power	WCA0579UV01	PVC	Black	UL2464	16AWG*3C+Drain+AL.Mylar	7.5	Power / 20A+2A / 4pin
Power	WCA00010899	PVC	Black	UL1277,UL1581,UL83	14AWG*3C+16AWG*1C	10.3	Power / 20A+2A / 4pin
Power	WCA00010239	PVC	Black	-	SJT 10AWG*3C+Talc	15.6	Power / 25A / 3pin
Sensor	WCA0570UV01	PVC	Black	UL2464	22AWG*3C+Talcum	5.0	Sensor M8 / 5A / 3pin
Sensor	WCA00010063	PU	Black	NONUL	22AWG*3C+Talcum	4.5	Sensor M8 / 5A / 3pin
Sensor	WCA0571UV01	PVC	Black	UL2464	22AWG*4C+Talcum	5.0	Sensor M8 / 5A / 4pin
Sensor	WCA00010062	PU	Black	NONUL	22AWG*4C+Insulation	4.8	Sensor M8 / 5A / 4pin
Sensor	WCA0027UV01	PVC	Black	UL2464	24AWG*2C+Talcum	4.2	Sensor M10.5 / 2A / 2pin
Sensor	WCA0006UV01	PVC	Black	UL2464	24AWGx3C+Talcum	4.5	Sensor M10.5 / 2A / 3pin
Sensor	WCA0036UV01	PVC	Black	UL2464	24AWG*4C+Talcum	5.0	Sensor M10.5 / 2A / 4pin
Sensor	WCA0229UV01	PVC	Black	UL2464	24AWG*5C+Talcum	5.0	Sensor M10.5 / 2A / 5pin
Sensor	WCA0570UV01	PVC	Black	UL2464	22AWG*3C+Talcum	5.0	Sensor M12 / 5A / 3pin
Sensor	WCA00010063	PU	Black	NONUL	22AWG*3C+Talcum	4.5	Sensor M12 / 5A / 3pin
Sensor	WCA0571UV01	PVC	Black	UL2464	22AWG*4C+Talcum	5.0	Sensor M12 / 5A / 4pin
Sensor	WCA00010062	PU	Black	NONUL	22AWG*4C+Insulation	4.8	Sensor M12 / 5A / 4pin
Sensor	WCA0521UV01	PVC	Black	UL2464	22AWG*5C+Talcum	5.5	Sensor M12 / 5A / 5pin
Sensor	WCA00010061	PU	Black	NONUL	22AWG*5C+Filler+Talcum+Paper	5.0	Sensor M12 / 5A / 5pin
Sensor	WCA0203UV01	PVC	Black	UL2464	24AWG*8C+Talcum	5.5	Sensor M12 / 2A / 8pin
Sensor	WCA00010060	PU	Black	NONUL	24AWG*8C+Paper+Filler	6.0	Sensor M12 / 2A / 8pin
Sensor	WCA00010209	PVC	Black	UL2464	22AWG*3C+Drain+AL.Mylar	4.5	Sensor M12 Shielded / 5A / 3pin
Sensor	WCA00010139	PU	Black	NONUL	22AWG*3C+Drain+AL.Mylar	4.5	Sensor M12 Shielded / 5A / 3pin
Sensor	WCA0568UV01	PVC	Black	UL2464	22AWG*4C+Drain+AL.Mylar	5.5	Sensor M12 Shielded / 5A / 4pin
Sensor	WCA00010140	PU	Black	NONUL	22AWG*4C+Drain+AL.Mylar	4.5	Sensor M12 Shielded / 5A / 4pin
Sensor	WCA0569UV01	PVC	Black	UL2464	22AWG*5C+Drain+AL.Mylar	5.5	Sensor M12 Shielded / 5A / 5pin
Sensor	WCA00010141	PU	Black	NONUL	22AWG*5C+AL.Mylar+Drain	5.2	Sensor M12 Shielded / 5A / 5pin
Sensor	WCA0003UV01	PVC	Black	UL2464	24AWG*8C+Drain+AL/Mylar	5.5	Sensor M12 Shielded / 2A / 8pin
Sensor	WCA00010142	PU	Black	NONUL	24AWG*8C+Drain+AL.Mylar	5.5	Sensor M12 Shielded / 2A / 8pin
Sensor	WCA0352XX02	PU	Black	NONUL	22AWG*5C+Talcum	5.0	Sensor M12 Y Cable / 5A / 5pin
Sensor	WCA0251XX02	PU	Black	NONUL	24AWG*8C+Paper	5.2	Sensor M12 Y Cable / 2A / 8pin
USB	WCA0365UV01	PVC	Black	-	28AWG*1P+24AWG*2C+AL.Mylar+Drain+Braid (USB 2.0)	5.0	USB / 2.0
IEEE 1394	WCA00010037	PVC	Black	-	(28AWG*1P+AL+B)*2+22AWG*2C+Tran.Mylar+AL+B	6.5	IEEE 1394
D-SUB	WCA0528UV01	PVC	Black	UL2464	24AWG*9C+Drain+AL.Mylar	6.0	D-SUB Standard / 09pin
D-SUB	WCA0465UV01	PVC	Black	UL2464	24AWG*15C+Drain+AL.Mylar	7.0	D-SUB Standard / 15pin
D-SUB	WCA0284UV01	PVC	Black	UL2464	24AWG*25C+Drain+AL.Mylar	9.0	D-SUB Standard / 25pin
D-SUB	WCA00010114	PVC	Black	UL2464	24AWG*37C+Drain+AL/Mylar	8.5	D-SUB Standard / 37pin
D-SUB	WCA00010080	PVC	Black	UL2464	(24AWG*25C+Mylar)+24AWG*25C+Drain+AL.Mylar	12.0	D-SUB Standard / 50pin
D-SUB	WCA0545UV01	PVC	Black	UL2464	26AWG*15C+Drain+AL.Mylar	6.5	D-SUB High Density / 15pin
D-SUB	WCA0546UV01	PVC	Black	UL2464	26AWG*26C+Drain+AL.Mylar	8.0	D-SUB High Density / 26pin
D-SUB	WCA0547UV01	PVC	Black	UL2464	26AWG*44C+Drain+AL.Mylar	10.5	D-SUB High Density / 44pin
D-SUB	WCA00010115	PVC	Black	UL2464	(26AWG*31C+Mylar)+26AWG*31C+Drain+AL/Mylar	13.0	D-SUB High Density / 62pin
D-SUB	WCA00010081	PVC	Black	UL2464	((28AWG*28C+Mylar)+28AWG*22C+Mylar)+28AWG*28C+Drain+AL	13.0	D-SUB High Density / 78pin

Product Series	Item No.	Jacket	Color	UL No.	Cable Spec.	Cable OD	Note
DVI	WCA00010095	PVC	Black	UL20276	(28AWG*1P+Drain+AL+Mylar)*4C+(1P+3C)*28AWG+AL+Braid	7.3	DVI / 19pin
DVI	WCA00010096	PVC	Black	UL20276	[3COAX+(1P*28AWG+Drain+AL.Mylar+Mylar)*4+1P*28#+6C*28AWG]+AL.Mylar+Braid	8.5	DVI / 23pin
DVI	WCA00010097	PVC	Black	UL20276	(28AWG*1P+Drain+AL+Mylar)*7C+28AWG*1P+28AWG*3C+AL+Braid	8.5	DVI / 25pin
DVI	WCA00010098	PVC	Black	UL20276	[3COAX+(28AWG*1P+Drain+AL+Mylar)*7+28AWG*1P+28AWG*6C]+AL+Braid	10.0	DVI / 29pin
RJ	WCA0663UV01	PVC	Black	-	CAT.5E UTP 24AWG*4P	6.0	RJ / Cat.5E
RJ	WCA0664UV01	PVC	Black	-	CAT.5E FTP 24AWG*4P+Mylar+D+AL/Mylar	6.5	RJ / Cat.5E
RJ	WCA00010356	PVC	Black	-	CAT.5E FTP 24AWG*5P+Mylar+Drain+AL.Mylar	6.5	RJ / Cat.5E
HDMI	WCA00010264	PVC	Black	UL20276	(26AWG*1P+Drain+AL+Mylar)*4C+26AWG*1P+26AWG*5C+AL+Braid	8.5	HDMI / 19pin
NMEA	WCA00010257	PVC	Black	-	[(24AWG+1P+AL)+(22AWG+1P+AL)]+Drain+AL.Mylar+Braid	6.0	NMEA / 4A / 5pin
NMEA	WCA00010258	PVC	Black	-	[(22AWG+1P+AL)+(18AWG+1P+AL)]+Drain+AL.Mylar+Braid	7.0	NMEA / 4A / 5pin
NMEA	WCA00010437	PVC	Gray	-	[(24AWG+1P+AL)+(22AWG+1P+AL)]+Drain+Braid+Mylar	7.1	NMEA / 4A / 5pin
NMEA	WCA00010369	PVC	Black	-	STOOW 16AWG*4C	10.6	NMEA / 8A / 4pin
NMEA	WCA00010259	PVC	Black	UL20276	[(18AWG*1P+AL)+(16AWG*1P+AL)]+Drain+AL+Braid	10.0	NMEA / 8A / 5pin
NMEA	WCA00010436	PVC	Gray	-	[(18AWG+1P+AL)+(15AWG+1P+AL)]+Drain+Braid	12.2	NMEA / 8A / 5pin
Coaxial	WCA0033XX01	PVC	Black	-	20AWG,RG-58/U1	5.0	Coaxial / 50Ω
Coaxial	WCA0009XX04	PVC	Black	-	RG-59U 1C+Braid	6.15	Coaxial / 75Ω
Coaxial	WCA0445XX01	PVC	Black	UL1185	26AWG*1C+Spiral	3.0	Coaxial / RCA
DC-JACK	WCA0072UV01	PVC	Black	UL2464	24AWG*2C+Drain+AL.Mylar	4.2	DC-JACK / 2pin,14pin
DC-JACK	WCA0549UV01	PVC	Black	UL2464	24AWG*3C+Drain+AL.Mylar	4.5	DC-JACK
KSZ Circular	WCA00010022	PVC	Black	UL2464	18AWGx2C+AL.Mylar	5.5	KSZ Circular / 10A / 2pin
KSZ Circular	WCA0242XX01	PVC	Black	UL2464	18AWG*3C+AL.Mylar	6.0	KSZ Circular / 10A / 3pin
KSZ Circular	WCA0416XX01	PVC	Black	UL2464	18AWG*4C+Drain+AL.Mylar	6.5	KSZ Circular / 10A / 4pin
Low Profile	WCA0542UV01	PVC	Black	UL2464	26AWG*8C+Drain+AL.Mylar	5.5	Low Profile / 1A / 8pin
Low Profile	WCA0543UV01	PVC	Black	UL2464	26AWG*10C+Drain+AL.Mylar	6.0	Low Profile / 1A / 10pin
Mini Din	WCA0487UV01	PVC	Black	UL2464	26AWG*4C+Drain+AL.Mylar	4.8	Mini Din / 4pin
Mini Din	WCA0486UV01	PVC	Black	UL2464	26AWG*5C+Drain+AL.Mylar	4.8	Mini Din / 5pin
Mini Din	WCA0540UV01	PVC	Black	UL2464	26AWG*6C+Drain+AL.Mylar	5.0	Mini Din / 6pin
Mini Din	WCA0541UV01	PVC	Black	UL2464	26AWG*7C+Drain+AL.Mylar	5.0	Mini Din / 7pin
Mini Din	WCA0542UV01	PVC	Black	UL2464	26AWG*8C+Drain+AL.Mylar	5.5	Mini Din / 8pin
Solar	WCA00010897	PVC	Black	UL1277,UL1581&UL83	18AWG*3C	8.5	Solar / 3pin
Solar	WCA00010898	PVC	Black	UL1277,UL1581&UL83	18AWG*4C	9.2	Solar / 4pin
Solar	WCA00010894	PVC	Black	UL1277,UL1581&UL83	12AWG*3C	11.0	Solar / 17A / 3pin
Solar	WCA00010895	PVC	Black	UL1277,UL1581&UL83	12AWG*4C	12.0	Solar / 17A / 4pin
Solar	WCA00010373	TPE-U	Black	-	12AWG*1C	6.5	Solar / 1Pin
Solar	WCA00010593	XLPO	Black	-	12AWG*1C	6.1	Solar / 1Pin
Solar	WCA00010750	XLPO	Black	-	12AWG*1C	6.3	Solar / 1Pin
Solar	WCA00010430	XLPO	Black	-	12AWG*1C	6.8	Solar / 1Pin

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Maximum Wire Copper OD Size

Product Series	Categories	Sub-Categories	Solder Pin: Maximum Copper OD within allowed current rating (Unit: mm)	Screw Pin: Maximum Copper OD within allowed current rating (Unit: mm)
Circular Connectors	Mini (A) - Size	AD	1.00	-
Circular Connectors	Mini (A) - Size	AU	0.80	-
Circular Connectors	Standard (B) - Size	BB	1.30	-
Circular Connectors	Standard (B) - Size	BD	1.00	-
Circular Connectors	Standard (B) - Size	BB	1.30	-
Circular Connectors	Standard (B) - Size	BBD	1.00	-
Circular Connectors	Standard (B) - Size	BD	1.00	-
Circular Connectors	Standard (B) - Size	BDU	1.00	-
Circular Connectors	Standard (B) - Size	BU	0.80	-
Circular Connectors	Middle (C) - Size	CBU	1.3/0.8	-
Circular Connectors	Middle (C) - Size	CB	1.30	-
Circular Connectors	Middle (C) - Size	CC	1.70	2.00
Circular Connectors	Middle (C) - Size	CD	1.00	-
Circular Connectors	Middle (C) - Size	CU	0.80	-
Circular Connectors	Middle (C) - Size	CDU	1.0/0.8	-
Circular Connectors	Large (D) - Size	DCD	1.7/1.0	-
Circular Connectors	Large (D) - Size	DCU	1.7/0.8	-
Circular Connectors	Large (D) - Size	DC	1.70	2.00
Circular Connectors	Large (D) - Size	DD	1.00	-
Circular Connectors	Large (E) - Size	ED	1.00	-
M Series Sensor Connectors	M8	8P	0.80	-
M Series Sensor Connectors	M12	12,12B,12D,12B,SBP,SDP	1.00	1.10
M Series Sensor Connectors	M20	HB20,HC20,HD20,LB20,LC20,LD20	1.70	2.00
M Series Sensor Connectors	M23	LJ23	-	-
Power Connectors	20A+2A	PWCU	1.7/0.8	-
Power Connectors	30A	PWL	3.60	-
Power Connectors	30A	PWJ	-	2.60
Power Connectors	25A	PWH	2.60	-
Power Connectors	20A	PWC	1.70	-
Power Connectors	8A	PWE	1.20	1.10
Power Connectors	12A	PWF	1.60	1.60
Power Connectors	16A	PWG	2.00	2.00
NMEA 2000 Connectors	Micro	12,12P	1.00	-
D-SUB Connectors	Standard	SDB-09	1.00	-
D-SUB Connectors	Standard	SDB-15,SDB-25	1.00	-
D-SUB Connectors	Standard	SDB-15	1.00	-
D-SUB Connectors	High Density	HDB-15	1.00	-
D-SUB Connectors	High Density	HDB-26,HDB-44	1.00	-
D-SUB Connectors	High Density	HDB-26	1.00	-

Cable Max. OD for Field Installable

Product Series	Categories	Sub-Categories	Cable OD
Circular Connectors	Mini (A) - Size	AD,AU	4.5~6.5
Circular Connectors	Standard (B) - Size	BB,BD	3.5~6.5
Circular Connectors	Standard (B) - Size	BB,BBD,BD,BDU,BU	4.5~6.5
Circular Connectors	Middle (C) - Size	CBU	7.6~9.6
Circular Connectors	Middle (C) - Size	CB,CC,CD,CU,CDU	4.0~9.6
Circular Connectors	Large (D) - Size	DCD	10.0~12.4
Circular Connectors	Large (D) - Size	DCU	9.5~10.8
Circular Connectors	Large (D) - Size	DC,DD	9.5~10.8
Circular Connectors	Large (E) - Size	None	None
Circular Connectors	Other - Size	PLD	4.5~6.5
M Series Sensor Connectors	M8	8P	4.5~6.5
M Series Sensor Connectors	M12	12, 12B, 12D, 12B,SBP,SDP	4.5~6.5
M Series Sensor Connectors	M20	HB20,HC20,HD20,LB20,LC20,LD20	5.5~12.5
M Series Sensor Connectors	M23	LJ23	8.5~17.5
Power Connectors	20A+2A	PWCU	4.0~9.6 , 10~19
Power Connectors	30A	PWL	10~19
Power Connectors	30A	PWJ	9.0~12.0 , 13~16
Power Connectors	25A	PWH	9.0~12.0 , 13~16
Power Connectors	20A	PWC	4.0~9.6
Power Connectors	8A	PWE	5.5~10.8
Power Connectors	12A	PWF	5.5~10.8
Power Connectors	16A	PWG	6.0~12.5
USB Connectors	Mini USB 2.0 B Type	NUB	3.5~5.5
USB Connectors	USB 2.0 A Type	UA	5.0~10.8
USB Connectors	USB 2.0 B Type	UB	5.0~10.8
NMEA 2000 Connectors	Micro	12, 12P	4.5~6.5
NMEA 2000 Connectors	Mini	MN	8.0~11.0
NMEA 2000 Connectors	Micro	UMC	4.5~7.5
NMEA 2000 Connectors	Mini	UMN	8~12.2
D-SUB Connectors	Standard	SDB-09	3.5~7.0
D-SUB Connectors	Standard	SDB-15,SDB-25	6.0~10.0
D-SUB Connectors	Standard	SDB-15	6.0~8.0
D-SUB Connectors	High Density	HDB-15	3.5~7.0
D-SUB Connectors	High Density	HDB-26,HDB-44	6.0~10.0
D-SUB Connectors	High Density	HDB-26	6.0~8.0
IEEE 1394 Connectors	IEEE 1394B	13-	6.0~10.0
Fiber Optic Connectors	LC Type	FB-	2.5~2.8 , 4.5~6.8
Fiber Optic Connectors	SC Type	FB-	2.0~2.4
Cable Joiner	6~10mm	CX	6~10
Cable Joiner	8~10mm	CX	8~10
Cable Joiner	10~12mm	CX	10~12
Cable Joiner	12~16mm	CX	12~16
RJ Connector	-	RCP,RDP,ROP	4.5~6.5

* Design and specification are subject to change without notice.

Quick Search (Circular Connector)

└ In-line

Size	Mating Style	Connector (Housing) Gender / Contact Gender	Overmolded with Cable / Field Installable	To	Mating Pair	Page
Mini Size (A) 7/16"-28 UNS	2 Points Lock	MM	Overmolded with Cable	To	Overmolded with Cable & Field Installable	1-14
		FF	Overmolded with Cable	To	Overmolded with Cable & Field Installable	1-14
Standard Size (B) 5/8"-27 UNS	2 Points Lock	MM	Overmolded with Cable	To	Overmolded with Cable & Field Installable	1-16
			Field Installable	To	Overmolded with Cable & Field Installable	1-16
		FF	Overmolded with Cable	To	Overmolded with Cable & Field Installable	1-17
			Field Installable	To	Overmolded with Cable & Field Installable	1-17
		FM	Overmolded with Cable	To	Overmolded with Cable & Field Installable	1-18
Middle Size (C) 13/16"-28 UNS	2 Points Lock	MM	Overmolded with Cable	To	Overmolded with Cable & Field Installable	1-22
			Field Installable	To	Overmolded with Cable & Field Installable	1-22
		FF	Overmolded with Cable	To	Overmolded with Cable & Field Installable	1-22
			Field Installable	To	Overmolded with Cable & Field Installable	1-23
		MF	Overmolded with Cable	To	Overmolded with Cable & Field Installable	1-23
		FM	Overmolded with Cable	To	Overmolded with Cable & Field Installable	1-23
			Field Installable	To	Overmolded with Cable & Field Installable	1-23
Large Size (D) 1"-20UNEF	2 Points Lock	MM	Overmolded with Cable	To	Overmolded with Cable & Field Installable	1-29
		FF	Overmolded with Cable	To	Overmolded with Cable & Field Installable	1-29
		MF	Overmolded with Cable	To	Overmolded with Cable & Field Installable	1-29
		FM	Overmolded with Cable	To	Overmolded with Cable & Field Installable	1-30
		MD*	Overmolded with Cable	To	Overmolded with Cable & Field Installable	1-30
			Field Installable	To	Overmolded with Cable & Field Installable	1-30
		ME*	Overmolded with Cable	To	Overmolded with Cable & Field Installable	1-31
			Field Installable	To	Overmolded with Cable & Field Installable	1-31

* (E) Male (Power) + Female (Signal) | (D) Female (Power) + Male (Signal)

└ Receptacle and Maing Pair

Size	Mating Style	Connector (Housing) Gender / Contact Gender	Receptacle / Receptacle with Overmolded Cable	To	Mating Pair	Page
Mini Size (A) 7/16"-28 UNS	Screw Thread / 2 Points Lock	MM	Receptacle	To	Overmolded with Cable & Field Installable	1-15
			Receptacle with Overmolded Cable	To	Overmolded with Cable & Field Installable	1-15
Standard Size (B) 5/8"-27 UNS	Screw Thread / 2 Points Lock	MM	Receptacle	To	Overmolded with Cable & Field Installable	1-19
			Receptacle with Overmolded Cable	To	Overmolded with Cable & Field Installable	1-20
Middle Size (C) 13/16"-28 UNS	Screw Thread / 2 Points Lock	MF	Receptacle	To	Overmolded with Cable & Field Installable	1-21
		MM	Receptacle	To	Overmolded with Cable & Field Installable	1-24
			Receptacle with Overmolded Cable	To	Overmolded with Cable & Field Installable	1-25
			Receptacle	To	Overmolded with Cable & Field Installable	1-26
	Receptacle with Overmolded Cable		To	Overmolded with Cable & Field Installable	1-27	
	3 Points Lock	MD*	Receptacle	To	Overmolded with Cable & Field Installable	1-28
		ME	Receptacle	To	Overmolded with Cable & Field Installable	1-28
		MM	Receptacle	To	Overmolded with Cable & Field Installable	1-32
Large Size (D) 1"-20UNEF		MF	Receptacle	To	Overmolded with Cable & Field Installable	1-33
	MD*	Receptacle	To	Overmolded with Cable & Field Installable	1-34	
	2 Points Lock	ME*	Receptacle	To	Overmolded with Cable & Field Installable	1-34
Micro Size (E) 1 3/16 ~-20 UNS	2 Points Lock	MF	Receptacle	To	Overmolded with Cable & Field Installable	1-34

* (E) Male (Power) + Female (Signal) | (D) Female (Power) + Male (Signal)