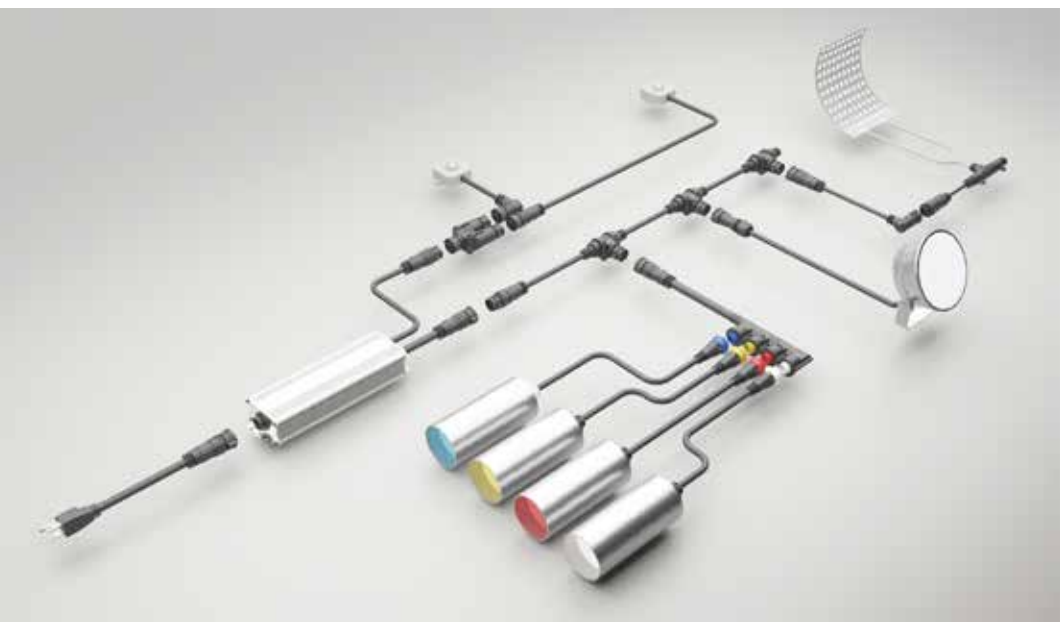


X-Lok Push Lock Series

LED Lighting Outdoor Quick Selection Guide

- Intuitive mating
- Audio and tactile feedback
- Power AC/DC, data, signal or hybrid
- Robust, secure and reliable for harsh environments



Amphenol LTW[®]
Unrivaled InterConnects for Harsh Environments



About Us

Since 1993, Amphenol LTW Technology “ALTW” lives and breathes to create, innovate, design and produce “***unrivaled interconnects for harsh environments***”. With over 300 worldwide patents, not only does ALTW offer the broadest and widest range of rugged interconnects in the industry but also customization with the mission of “Customer Satisfaction First”. Undoubtedly, ALTW is the leader in rugged interconnects, highly recognized for its uncompromising quality, short lead time, fast and tailored service and its very competitive pricing.

Regardless of the challenging environments that your products will be subject to; there is a very good chance that you will find what you are looking for with ALTW.

24+

Product Series

80,000+

Part Numbers
(>70% customized parts)

30+

Market
Applications

75+

Distribution
Channels

Contact Us

- ✓ Headquartered & Factory: New Taipei City, Taiwan
- ✓ APAC Factory: Kunshan, Jiangsu Province, China PRC
- ✓ NA Factory: Nogales, Mexico
- ✓ EU Factory: Coming Soon

Our Capabilities

ALTW's strategy is to have as much vertically integrated manufacturing in-house capabilities as possible in order to ensure quality assurance, short lead time and highly competitive pricing. These are for example:

- Testing laboratories certified TAF and UL WDTP
- CNC lathe machined parts and contacts / pins
- Tooling / mold design and manufacturing
- Horizontal and vertical injection manufacturing
- Semi and full automated connector and cable assembly lines
- Cable assembly
- Total electronic turnkey solutions

Online Resource



Your benefits

- ✓ Worldwide access 24/7
- ✓ Product configurator
- ✓ Real time order tracking
- ✓ Online assistance (live chat)
- ✓ Instant drawing release
- ✓ Instant quotation
- ✓ Order online
- ✓ Catalogue
- ✓ Search by vendor
- ✓ Search by drawing / picture

X-Lok Push Lock Series

Intuitive Mating & Audio Feedback



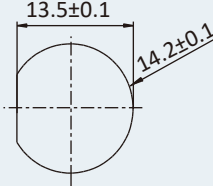

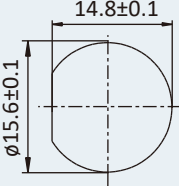

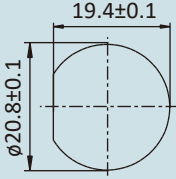

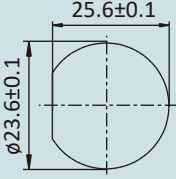

Product Overview

Amphenol LTW's X-Lok Series connectors, available in metal or plastic, are presented in various sizes for power, data, signal or hybrid for fast, robust, simple, secure and reliable connections. Featuring a push lock mechanism for intuitive mating with audible and tactile feedback.

The X-Lok Series are foolproof, intuitive and enable quicker installation than traditional threaded solutions. With UL1977 & 2238+50e certification, ALTW's X-Lok is your ideal solution for outdoor applications.

Panel cut out:

(unit: mm)

 <p>up to 33 pins</p>  <p>Mini Size</p>	 <p>up to 8 pins</p>  <p>Standard Size</p>
 <p>up to 12 pins</p>  <p>Middle Size</p>	 <p>up to 100 pins</p>  <p>Large Size</p>

Our Experience

High Reliability, Robust Mechanical Design



ALTW enables the connectivity of lighting and control matrix through power, signal and hybrid connectors that are capable of high power with high-speed signal transmission capability for the harsh environment.



Horticulture / Grow



Architectural



Outdoor LED Displays



Underwater Lighting



Hospital Surgical
Lighting & Room



Outdoor Signage



Entertainment



Smart City, Smart
Street Lighting



Tunnel



Parking



Commercial



Warehouse Lighting



X-Lok Mini A Size

- Metal or plastic version
- Alternative solution to M12
- High density up to 33 contacts
- 30-630V
- 0.5A-16A current rating
- 1,000 mating cycles
- Salt spray 1,000 hrs
- IP68 mated or unmated

X-Lok Mini A Size

Field Installable

② No. of Contacts	Nominal Current	Certificate	AWG	Voltage (AC/DC)	UL No.	Assemble Style	P/N
2-3	5A	UL, cUL	20-22	300V	-	Screw-in	AD-②B FM B-QL8AP0
2-5					E231776 UL1977	Screw-in	AD-②B FF B-QL8AP0 AD-②B MM B-QL8AP0
5					-	Crimp	AD-②B MM A-QL8AP0



(A) Crimp



(B) Screw In



(P) PCB 180°



(S) Solder



AD-②B~~FF~~B-QL8AP0



AD-②B~~MM~~B-QL8AP0

Receptacle

② No. of Contacts	Nominal Current	Certificate	AWG	Voltage (AC/DC)	UL No.	Assemble Style	P/N
2	5A	UL	-	300V	-	PCB 180°	ASD-②P MM P-QC8001 (Metal, front fastened nut)
2-3	5A	UL	-	300V	-	Solder	AD-②P MF S-QC8001 (Plastic, front fastened nut)
2-5	5A	UL	-	300V	UL1977 UL2238	PCB 180°	AD-②P MM P-QC8001 (Plastic, front fastened nut)
			20-22	300V		Solder	AD-②P MM S-QC8001 (Plastic, front fastened nut)
5	16A	UL	-	630V	-	Solder	AG-②P MJ S-QC800P (Plastic, front fastened nut)
	5A		20	300V			ASD-②P MM S-QC8AXX (Metal, front fastened nut)

(MM) Male Connector, Male Contact
(MF) Male Connector, Female Contact
(FF) Female Connector, Female Contact
(FM) Female Connector, Male Contact
(MJ) Male Connector, Male (Power) + Female (Ground)
* Cable length, XX, EX: 01 = 1M



AD-②P~~M~~P-P-QC8001



AD-②P~~M~~M-S-QC8001

X-Lok Mini A Size

Overmolded

② No. of Contacts	Nominal Current	Certificate	AWG	Voltage (AC/DC)	UL No.	Cable Style	P/N
2	5A	-	26	300V	-	-	ASD-②BFFM-QL8PXX female straight (free cable end, metal)
2-5	5A	UL, cUL	20	300V	E318730 UL2238	21388	AB-AD②ML-ADML-QDXXX male-male (straight-straight, plastic) AB-AD②ML-ADFL-QDXXX male-female (straight-straight, plastic) AB-AD②FL-ADFL-QDXXX female-female (straight-straight, plastic) AD-②BMMM-QL8DXX male straight (free cable end, plastic) AD-②BFFM-QL8DXX female straight (free cable end, plastic)
4	5A	-	22	300V	-	2517	ASD-②BFFM-QL8CXX female straight (free cable end, metal)
5	16A	-	14	630V	-	20234	AG-②BFGM-QL8GXX female straight (free cable end, plastic)
	5A	-	20	300V	-	20549	ASD-②BFFM-QL8BXX female straight (free cable end, metal)
						21996	ASD-②BFFM-QL8FXX female straight (free cable end, metal)
						2517	ASD-②BFFM-QL8CXX female straight (free cable end, metal)

(MM) Male Connector, Male Contact
(FF) Female Connector, Female Contact
(FG) Female Connector, Female (Power) + Male (Ground)
* Cable length, XX, EX: 01 = 1M | XXX, EX: 001 = 1M

Female



AD-②BFFM-QL8DXX

Male



AD-②BMMM-QL8DXX



X-Lok

Standard B Size

- Plastic version
- Offering 2 to 8 contacts
- 300-600V
- 5A-10A current rating
- 1,000 mating cycles
- Salt spray 1,000 hrs
- IP68 mated or unmated

Field Installable

② No. of Contacts	Nominal Current	Certificate	AWG	Voltage (AC/DC)	UL No.	Assemble Style	P/N (female)	P/N (male)
2-3	10A	UL, cUL	16-18	300V	E231776 UL1977	Crimp	BB-②BFMA-QL8XNP	BB-②BMFA-QL8XNP
							BB-②BFFA-QL8XPP	BB-②BMFA-QL8XPP
2-4	10A	UL, cUL	16-18	300V	E231776 UL1977	Crimp	BB-②BFFA-QL8XNP	BB-②BMMA-QL8XNP
							BB-②BFFA-QL8XPP	BB-②BMMA-QL8XPP
						Screw-in	BB-②BFFB-QL8XPP	BB-②BMMB-QL8XPP
2-5	5A	UL, cUL	20-22	300V	E231776 UL1977	Crimp	BD-②BFFA-QL8XN0	BD-②BMMA-QL8XN0
							BD-②BFFA-QL8XP0	BD-②BMMA-QL8XP0
							BD-②BFMA-QL8XN0	BD-②BMFA-QL8XN0
							BD-②BFMA-QL8XP0	BD-②BMFA-QL8XP0

(MM) Male Connector, Male Contact
 (FF) Female Connector, Female Contact
 * X = Seal size (A, S, M, L)

(MF) Male Connector, Female Contact
 (FM) Female Connector, Male Contact

Female

Male



BB-②BFFA-QL8XPP



BB-②BMFA-QL8XPP

X-Lok Standard B Size

Receptacle

② No. of Contacts	Nominal Current	Certificate	AWG	Voltage (AC/DC)	UL No.	Assemble Style	P/N
2-3	10A	UL, cUL	16-18	300V	UL2238 UL50e	Solder	BB-②PMFS-QC8001 (front fastened nut)
							BB-②RMFS-QC8001 (rear fastened nut)
							BB-②PMFS-QC800P (front fastened nut)
							BB-②RMFS-QC800P (rear fastened nut)
2-4	BB-②PMMS-QC8001 (front fastened nut)						
	BB-②RMMS-QC8001 (rear fastened nut)						
	BB-②PMMS-QC800P (front fastened nut)						
	BB-②RMMS-QC800P (rear fastened nut)						
2-5	5A		20-22			BD-②PMFS-QC8001 (front fastened nut)	
						BD-②PMMS-QC8001 (front fastened nut)	
						BD-②RMFS-QC8001 (rear fastened nut)	
						BD-②RMMS-QC8001 (rear fastened nut)	
		BD-②PMFS-QC800P (front fastened nut)					
		BD-②PMMS-QC800P (front fastened nut)					
		BD-②RMFS-QC800P (rear fastened nut)					
		BD-②RMMS-QC800P (rear fastened nut)					
4	10A	16-18			PCB 180°	BB-②PMMP-QC8001 (rear fastened nut)	

(MM) Male Connector, Male Contact
(FF) Female Connector, Female Contact

(MF) Male Connector, Female Contact
(FM) Female Connector, Male Contact



BB-②PMFS-QC8001



BB-②PMMS-QC8001



BB-②RMFS-QC8001



(S) Solder



(P) PCB 180°

X-Lok Standard B Size

Overmolded

② No. of Contacts	Nominal Current	Certificate	AWG	Voltage (AC/DC)	UL No.	Cable Style	P/N (female)	P/N (male)
2-3	10A	UL	16	300V	UL2238 UL50e	21388	BB-②AFMM-QL8DXX (straight) BB-②AFMM-QR8DXX (right angle)	BB-②AMFM-QL8DXX (straight)
						SJTW	BB-②AFMM-QL8EXX (straight) BB-②AFMM-QR8EXX (right angle)	BB-②AMFM-QL8EXX (straight)
2-4						21388	BB-②AFFM-QL8DXX (straight) BB-②AFFM-QR8DXX (right angle)	BB-②AMMM-QL8DXX (straight)
						SJTW	BB-②AFFM-QL8EXX (straight) BB-②AFFM-QR8EXX (right angle)	BB-②AMMM-QL8EXX (straight)
2-5	5A		20			21388	BD-②AFFM-QL8DXX (straight) BD-②AFFM-QR8DXX (right angle) BD-②AFMM-QL8DXX (straight) BD-②AFMM-QR8DXX (right angle)	BD-②AMMM-QL8DXX (straight) BD-②AMFM-QL8DXX (straight)
3			18			SJTW	BD-②AFFM-QL8EXX (straight) BD-②AFFM-QR8EXX (right angle) BD-②AFMM-QL8EXX (straight) BD-②AFMM-QR8EXX (right angle)	BD-②AMMM-QL8EXX (straight) BD-②AMFM-QL8EXX (straight)

* Cable length, XX, EX: 01 = 1M * Double Ended available

Female



BB-②AFMM-QL8DXX



BB-②AFFM-QR8DXX

Male



BB-②AMMM-QL8DXX



BB-②AMFM-QL8DXX



X-Lok

Middle C Size

- Plastic version
- Offering 2 to 12 contacts
- 300-600V
- 5A-20A current rating
- 1,000 mating cycles
- Salt spray 1,000 hrs
- IP68 mated or unmated

Field Installable

② No. of Contacts	Nominal Current	Certificate	AWG	Voltage (AC/DC)	UL No.	Assemble Style	P/N (female)	P/N (male)
2	10A	UL	16	600V	UL2238	Screw-in	CC-②BFFB-QL8APA	-
2-3	20A		12-14	300V	UL1977	Crimp	CC-②BFFA-QL8XNP	CC-②BMMA-QL8XNP
							CC-②BFFA-QL8XPP	CC-②BMMA-QL8XPP
						Screw-in	CC-②BFMA-QL8XNP	CC-②BMFA-QL8XNP
							CC-②BFMA-QL8XPP	CC-②BMFA-QL8XPP
3	10A		16	600V	UL2238	Screw-in	CC-②BFFB-QL8APA	-
			12-18	300V	UL2238 UL50e		CC-②BFMB-QL8APA	-
			16-18		UL1977	Crimp	CB-②BFFA-QL8XN0	CB-②BMMA-QL8XN0
4-5	10A		16-18	300V	UL1977		CB-②BFFA-QL8XP0	CB-②BMMA-QL8XP0
							CB-②BFMA-QL8XN0	CB-②BMFA-QL8XN0
							CB-②BFMA-QL8XP0	CB-②BMFA-QL8XP0

(MM) Male Connector, Male Contact
 (FF) Female Connector, Female Contact
 * X = Seal size (A, S, M, L)

(MF) Male Connector, Female Contact
 (FM) Female Connector, Male Contact



(A) Crimp



(B) Screw In

Female

Male



CC-②BFFA-QLXPP



CC-②BFFB-QL8APA



CC-②BMMA-QL8XPP



CC-②BMMB-QL8XPP

X-Lok Middle C Size

Receptacle

② No. of Contacts	Nominal Current	Certificate	AWG	Voltage (AC/DC)	UL No.	Assemble Style	P/N
2-3	20A	UL	12-14	300V	UL2238 UL50e	Solder	CC-②PMFS-QC800P (front fastened nut) CC-②PMMS-QC800P (front fastened nut) CC-②RMFS-QC800P (rear fastened nut) CC-②RMMS-QC800P (rear fastened nut)
	10A		16	600V	UL2238		CC-②PMMS-QC801P (front fastened nut)
3	10A		12-18	300V	UL2238 UL50e		CC-②PMFS-QC801P (front fastened nut)
4-5	10A		16-18	300V	UL2238 UL50e		CB-②PMFS-QC8001 (front fastened nut) CB-②PMMS-QC8001 (front fastened nut) CB-②RMFS-QC8001 (rear fastened nut) CB-②RMMS-QC8001 (rear fastened nut)

(MM) Male Connector, Male Contact
(MF) (H) Male Connector, Female Contact



CC-②PMMS-QC800P



CC-②RMFS-QC800P



(S) Solder

X-Lok Middle C Size

Overmolded

② No. of Contacts	Nominal Current	Certificate	AWG	Voltage (AC/DC)	UL No.	Cable Style	P/N (female)	P/N (male)
2-3	20A	UL	12	300V	UL2238 UL50e	SJTW	CC-②AFFM-QL8EXX (straight) CC-②AFFM-QR8EXX (right angle) CC-②AFMM-QL8EXX (straight) CC-②AFMM-QR8EXX (right angle)	CC-②AMMM-QL8EXX (straight) CC-②AMFM-QL8EXX (straight)
4-5	10A		16			21388	CB-②AFFM-QL8DXX (straight) CB-②AFFM-QR8DXX (right angle) CB-②AFMM-QL8DXX (straight) CB-②AFMM-QR8DXX (right angle)	CB-②AMMM-QL8DXX (straight) CB-②AMFM-QL8DXX (straight)

* Cable length, XX, EX: 01 = 1M | XXX, EX: 001 = 1M * Double Ended available

Female



CC-②AFMM-QL8EXX

CB-②AFMM-QR8DXX

Male



CC-②AMMM-QL8EXX

CC-②AMFM-QL8EXX



X-Lok

Large D Size

- Metal or plastic version
- High density up to 100 contacts
- 60V (0.5A), 300-600V
- 0.5A-50A current rating
- 1,000 mating cycles
- Salt spray 1,000 hrs
- IP68 mated or unmated

Field Installable

② No. of Contacts	Nominal Current	Certificate	AWG	Voltage (AC/DC)	UL No.	Assemble Style	P/N (female)	P/N (male)
2, 3, 5	7-20A	UL	12-18	300V, 600V	UL1977	Crimp	DC-②BFFA-QL8XNP DC-②BFFA-QL8XPP DC-②BFMA-QL8XNP DC-②BFMA-QL8XPP	DC-②BMM A-QL8XNP DC-②BMM A-QL8XPP DC-②BMFA-QL8XNP DC-②BMFA-QL8XPP
2-5						Screw-in	DC-②BFFB-QL8XPP DC-②BFMB-QL8XPP	DC-②BMM B-QL8XPP DC-②BMFB-QL8XPP

(MM) Male Connector, Male Contact
(FF) Female Connector, Female Contact
* X = Seal size (A, S, M, L)

(MF) Male Connector, Female Contact
(FM) Female Connector, Male Contact



(A) Crimp



(B) Screw In

Female

Male



DC-②BFFA-QL8XPP



DC-②BFFB-QL8XPP



DC-②BMFA-QL8XPP



DC-②BMFB-QL8XPP

X-Lok Large D Size

Receptacle

② No. of Contacts	Nominal Current	Certificate	AWG	Voltage (AC/DC)	UL No.	Assemble Style	P/N
2, 3, 5	20A	UL	12-14	300V, 600V	UL2238 UL50e	Solder	DC-②PMF S -QC800P (front fastened nut) DC-②RMF S -QC800P (rear fastened nut) DC-②RM S -QC800P (rear fastened nut) DC-②PM S -QC800P (front fastened nut)
3	50A		-	600V	-	Crimp	DM-②PMM C -QC800P (front fastened nut)
						Solder	DM-②PMF S -QC801P (front fastened nut)
5	20A+5A		12-14 20-22	300V	UL1977	Solder	DCD-②RMF S -QC8001 (rear fastened nut) DCD-②RM S -QC8001 (rear fastened nut)

(MM) Male Connector, Male Contact
(MF) Male Connector, Female Contact



DC-②PMF**S**-QC800P



DC-②RM**S**-QC800P



DM-②PMM**C**-QC800P



(C) Crimp



(S) Solder

X-Lok Large D Size

Overmolded

② No. of Contacts	Nominal Current	Certificate	AWG	Voltage (AC/DC)	UL No.	Cable Style	P/N (female)	P/N (male)
2, 3, 5	20A	UL	12	300V	UL2238 UL50e	SJTW	DC-②AFFM-QL8EXX (straight) DC-②AFFM-QR8EXX (right angle) DC-②AFMM-QL8EXX (straight) DC-②AFMM-QR8EXX (right angle)	DC-②AMMM-QL8EXX (straight) DC-②AMFM-QL8EXX (straight)
3	50A		8	600V	-	2517	DM-②BFFM-QL8CXX (straight) DM-②BFMM-QL8C01 (straight)	-

* Cable length, XX, EX: 01 = 1M * Double Ended available

Female

Male



DC-②AFFM-QL8EXX



DCD-②AFMM-QL8FXX



DC-②AMMM-QL8EXX

New AmphenolLTW.com E-Commerce Website



Products

- ✓ Find accessories and mating part easily
- ✓ Generating product comparison table automatically

Customize Your Parts

Generate the drawing, get your tailored price of your customized part

Industries Solutions

Applications, success stories, associated products

Support

- ✓ Where to buy: find the distributors near your location
- ✓ FAQs



Search

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