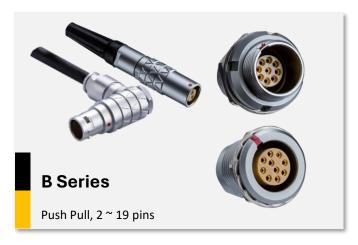
- Reliable connection for power / data / signal transmission
- Easy auto-latching plug, fast & secure
- Metal shell for 360° EMI shielding
- Meet IP50/IP68
- Operating temperature -40°C to 125°C

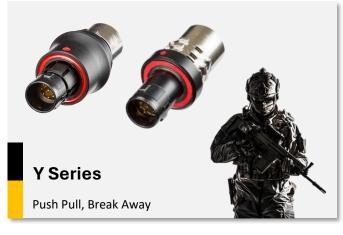
Amphenol LTW

FLOS & FLOS+Connector

Push Pull or Break Away









Unrivaled InterConnects for Harsh Environments



Production Sites (Taiwan, China, Mexico)

30+ **Market Applications** 90,000+ **Products**

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.

FLOS & FLOS+

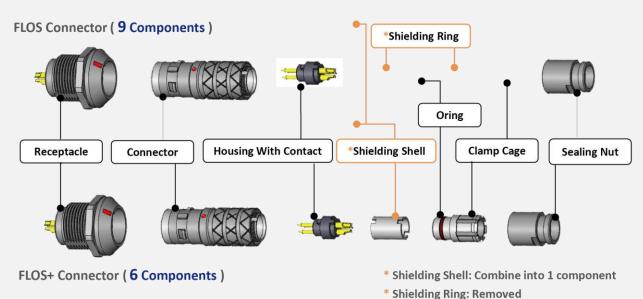
Amphenol LTW's FLOS & FLOS+ Series connectors provide a full-metal push-pull and break-away solutions for data, signal, and power transmissions in indoor and outdoor environments. FLOS & FLOS+ Series not only offers high performance of interconnection with its push-pull coupling mechanism, corrosion-resistant coating and 360° EMI shielding but also cost-effective price in the market.

These push-pull connectors meet IP50/IP68 waterproof protection, and UL94V-0 flammability rating ideal for multiple applications include non-invasive medical electronic equipment, military, testing, and measurement equipment.

- IP50, IP68 mated or unmated
- Nominal current up to 25A
- Operating voltage up to 700V
- Push-pull locking and break-away function
- Flexibility & Capability Of Customization
- RoHS & REACH compliant



FLOS & FLOS+ Comparison



FLOS Y Series - Military Connector



Amphenol LTW FLOS Y Series Robust Metal Circular Connectors are an advanced and highly reliable solution with Push-Pull or Break-Away locking for military applications.

- Push-pull mechanism
- Lightweight
- Simple mating and locking
- Compact design
- Affordable
- Extremely robust
- Blind mate
- Unmistaken locking and mating state





Product Range Overview

SUB SERIES	B Series A Size	B Series B Size	B Series C Size	B Series D Size
Mating Style	Push Pull	Push Pull	Push Pull	Push Pull
Plastic Version	-	-	-	-
Metal Version	✓	✓	✓	✓
No. of Contacts	5	2 ~ 9	2 ~ 16	2 ~ 19
Plating of Contacts	Gold Plated	Gold Plated	Gold Plated	Gold Plated
Operating Voltage (AC/DC)	150V, 200V	150V ~ 400V	150V ~ 500V	200V ~ 700V
Nominal Current	1.7A, 2A	2A ~ 10A	1.5A ~ 9A	1.7A ~ 25A
Operating Temperature	-40°C ~ 105°C	-40°C ~ 105°C	-40°C ~ 105°C	-40°C ~ 105°C
Fasten Style of Nut	Rear	Dual	Dual	Dual
Receptacle	✓	✓	✓	✓
Field Serviceable/Installable	✓	✓	✓	✓
Accessories	✓	✓	✓	✓
Mating Cycles (Pin Contact)	5000	5000	5000	5000
IP Rating	IP50	IP50	IP50	IP50
Salt Spray (Connector, Mated)	96h, 144h	144h	144h	144h
UV Resistant	-	-	-	-
Flammability Rating	UL94V-0	UL94V-0	UL94V-0	UL94V-0
Vibration Resistant	10 ~ 55Hz / Amplitude 1.52mm, 10 ~ 2000Hz/15g	10 ~ 55Hz / Amplitude 1.52mm		10 ~ 55Hz / Amplitude 1.52mm, 10 ~ 2000Hz/15g
EMI Option	✓	✓	✓	✓
RoHS Compliant	✓	✓	✓	✓
REACH Compliant	✓	✓	✓	✓
Applicable Wire Gauge	28 ~ 30 AWG	22 ~ 30 AWG	20 ~ 30 AWG	16 ~ 30 AWG

Product Range Overview

SUB SERIES	K Series B Size	K Series B Size (FLOS +)	K Series C Size	K Series C Size (FLOS+)
Mating Style	Push Pull	Push Pull	Push Pull	Push Pull
Plastic Version	-	-	-	-
Metal Version	✓	✓	✓	✓
No. of Contacts	2 ~ 9	7	2 ~ 16	2 ~ 8
Plating of Contacts	Gold Plated	Gold Plated	Gold Plated	Gold Plated
Operating Voltage (AC/DC)	150V ~ 400V	250V	150V ~ 500V	60V ~ 600V
Nominal Current	2A ~ 10A	2.5A	1.5A ~ 15A	2A ~ 15A
Operating Temperature	-40°C ~ 105°C			
Fasten Style of Nut	Dual	N/A	Dual	Dual
Receptacle	✓	✓	✓	✓
Field Serviceable/Installable	✓	✓	✓	✓
Accessories	✓	✓	✓	✓
Mating Cycles (Pin Contact)	5000	5000	5000	5000
IP Rating	IP68	IP68	IP68	IP68
Salt Spray (Connector, Mated)	144h	144h	144h	144h, 1000h
UV Resistant	-	-	-	-
Flammability Rating	UL94V-0	UL94V-0	UL94V-0	UL94V-0
Vibration Resistant	10 ~ 55Hz / Amplitude 1.52mm	10 ~ 2000Hz / Amplitude 1.5mm	10 ~ 55Hz / Amplitude 1.52mm	10 ~ 55Hz / Amplitude 1.52mm, 10 ~ 2000Hz / Amplitude 1.5mm
EMI Option	✓	✓	✓	✓
RoHS Compliant	✓	✓	✓	✓
REACH Compliant	✓	✓	✓	✓
Applicable Wire Gauge	22 ~ 30 AWG	28 ~ 30 AWG	20 ~ 30 AWG	20 ~ 22 AWG

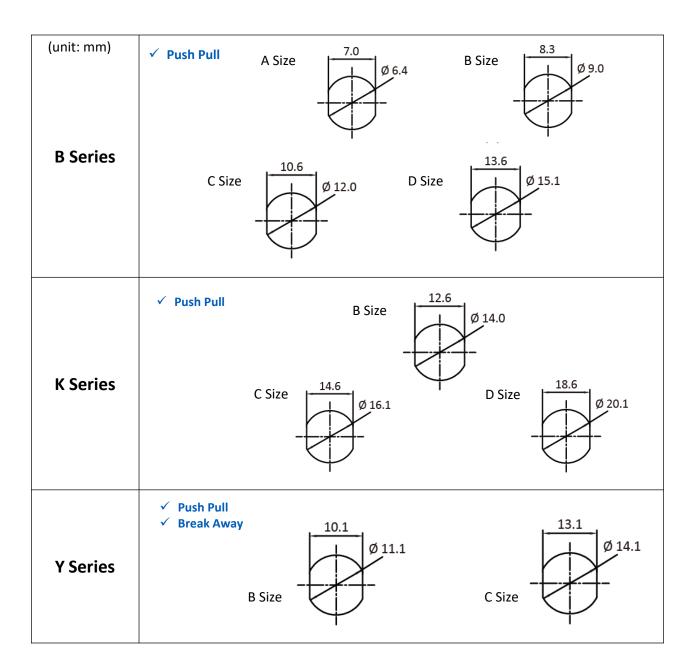
Product Range Overview

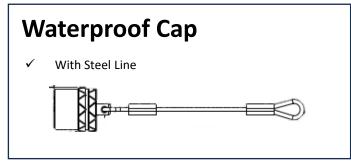
SUB SERIES	K Series D Size	K Series D Size (FLOS+)	Y Series B Size	Y Series C Size
Mating Style	Push Pull	Push Pull	Push Pull, Break-Away	Push Pull
Plastic Version	-	-	-	-
Metal Version	✓	✓	✓	✓
No. of Contacts	2 ~ 19	16 ~ 26	9	14
Plating of Contacts	Gold Plated	Gold Plated	Gold Plated	Gold Plated
Operating Voltage (AC/DC)	250V ~ 700V	200V, 300V	200V	300V
Nominal Current	5A ~ 17A	2A, 6A	5A	5A
Operating Temperature	-40°C ~ 105°C			
Fasten Style of Nut	Dual	Dual	Front	Front
Receptacle	✓	✓	✓	✓
Field Serviceable/Installable	✓	✓	✓	✓
Accessories	✓	✓	✓	✓
Mating Cycles (Pin Contact)	5000	5000	5000	5000
IP Rating	IP68	IP68	IP68	IP68
Salt Spray (Connector, Mated)	144h	1000h	96h	96h
UV Resistant	-	-	-	-
Flammability Rating	UL94V-0	UL94V-0	UL94V-0	UL94V-0
Vibration Resistant	10 ~ 55Hz / Amplitude 1.52mm	10 ~ 2000Hz / Amplitude 1.5mm		10 ~ 55Hz / Amplitude 1.52mm
EMI Option	✓	✓	✓	✓
RoHS Compliant	✓	✓	✓	✓
REACH Compliant	✓	✓	✓	✓
Applicable Wire Gauge	16 ~ 24 AWG	22 ~ 30 AWG	26 AWG	26 AWG

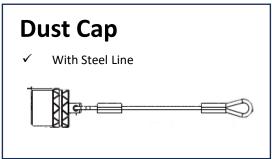
Served Markets & Applications

Market	Application			
LED Lighting	 Architectural Lighting Residential, Medical, and Commercial Lighting Street, Parking, Park Lot, and Tunnel Lighting Entertainment and Signage Lighting 	 Horticulture, Grow, & Warehouse Lighting Mass Transportation and Vehicles Marine Vessel and Submersible Lighting Appliances and Equipment Lighting 		
Marine	 Navigation System: Radar, GPS, Sonar, Fish-finder, Auto-pilot, Sailing Instruments, Chart Plotter Communication: Antenna, Radio, AIS, SCS Instrumentation & Monitoring: MFD, CCTV, Sensors 	Power Distribution: Appliances, Charging, HVAC Entertainment: Video, Audio, Decorative Fixture		
Broadband Wireless Access	Access Point: LTE, 5G Cellular, Subscriber, and Mobile Station Wireless Router and Mobile Backhaul	Power Supply and distribution system Other Communication Equipment		
Industrial Automation	 Data Communication: Router, Switches Motors: Servo, Step, Encoder, Actuator Power Supply and Distribution Robotic Arms, Packaging, and Conveyor System 	Controller: Machine Vision, AVI, Sensors Autonomous Robots, Forklifts, Power Tools Industrial PC, Counters, and Display		
Renewable Energy	Device Communication and Tracker Wind Turbine and Tidal Power Generation	Energy Storage and Portable Energy		
Heavy Equipment	Navigation System: GPS, Lidar, Radar, Ultrasonic Instrumentation, Control, and Diagnostic Systems Monitoring: Display, Camera, Imaging	 Safety System: Sensor, ADAS, Telematics & Tracking Communication and Electronic Toll Systems Power Distribution: Charging, Lighting, Equipment 		
Autometer	Metering: Water, Electric, & Gas Meter Power and Control: Drone, Security Alarm	Monitoring: Sewage, Telemetry, and Vehicle Tracking		
Test Equipment	 Measuring Device: Air, Humidity, Light, Sound, Water, Image, Weight, Height Detectors: Gas, Fire, Leak, Motion, Heat Monitoring: Seismic (earthquake), Climatic 	Weighing: Weigh, In-motion Geodetic System: Surveying, Laser Marking, Borrescope		
Hybrid Electric Vehicles	Motor Module: Scooter, Hoover board, Wheelchair Safety System: Speed, Brake, Throttle, Gear Power System: Controller	 Sensors: Speedometer, Fuel, Cleaning Device Communication: CAN, In-vehicle Info Lighting: Interior and Exterior LED 		
Railway Mass Transit	 Navigation: GPS, Radar, Lidar, Ultrasonic HVAC Infotainment: Display, sound, Broadcasting, monitor 	 Sensors: Speedometer, Fuel, Cleaning Communication: Main Controller, In-vehicle Info Lighting: Interior and Exterior 		
Mobile Devices	Drone Remote Controller Measurement: Altimeter, Gesture, Piezoelectric	Handheld: Barcode, Scanner, Portable lamp, GPS		
Transpo	Monitoring: Display ,C CTV, Lidar, Surveillance Cam Communication: Wifi, router, Fleet Management	Navigation: GPS, RadarPeripherals: Speaker, Electronic seats		
Medical Equipment	 Patient Care: Electric Beds, Wheelchair Lift & Stair, Rehabilitation System, Mobile Carts Visualization: Display and Monitors 	Diagnostic: MRI, CT Scan, Ultrasound, X-ray Monitoring: ECG, Holter, Blood Pressure, Sugar		
Automotive Diagnostics	Auto-crash Detection & Notification System Vehicle Tracking and Roadside Assistance System	Remote Diagnostics		
UAV	Drone: Commercial, Consumer, & Military			
Lifts & Materials Handling	Forklift, Industrial Lift, Material Handling			
Remote Video Response Center	Monitoring: Display ,CCTV, Dome, IP Camera Detection: Auto-License Plate Recognition, Alarm Identification: Face Detection, Encoders	 Remote Control Devices and Sensors Peripherals: Junction Boxes and Cabling System Lighting: Interior and Exterior 		
Autonomous	Navigation & Sensor: GPS, Lidar, Radar, Ultrasonic, IMU Imaging: Cameras, Monitors, Infotainment Display	Controller: Inertial Measurement System, Central Computer		
Communication	Transmitter and Receiver Equipment Data: Router and Switches	Base Station and Access Point High Bandwidth: Multiplexer & Demultiplexer		
Commercial Military	Vehicle: Tank, Aircraft, Warship, Submarine Communication: Radios, VoIP, Telephone, Computer	Imaging: Thermal and Night Vision CameraPeripherals: Lighting and Charging Equipment		
Rugged IT	Telemetry Military Notebook & Tablet and VR & AR	Night Vision Googles and Camera Communication Equipment		

Panel Cut-Out









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