

Micro-USB Connectors, Waterproof (IP67-rated) 105443 Right Angle, SMT with Through-hole tabs, without Flange, Halogen-free

molex[®]

Mechanically robust micro-USB connectors withstand post-solder reflow while preventing water ingress at IP67 level

Features and Benefits

High sealing protection rated at IP67 level	Safeguards costly application investments of mobile device makers and users
Insert-mold housing	Ensures reinforced terminal retention to housing; mechanical robustness of part and superior co-planarity before and after reflow soldering
Wide terminal contacts	Provide higher current-carrying capacity of 2.0A than USB-IF (USB Implementers Forum) specification of 1.80A
Chamfered terminal contact tips	Facilitate smooth mating with plug terminals at 10,000 durability cycles
Shell design with mating-angle and dimension-control	Reduces wear-and-tear on shell while ensuring an insertion or withdrawal force beyond 10,000 durability cycles
Plug-stopper on shell	Enables the connector to withstand excessive insertion force when mated with cable plug



Waterproof micro-USB Connectors, IP67-rated

Applications

Smart phones and mobile devices (I/O connectors)

Mobile and smart phones

Tablet PCs

Consumer

Digital cameras

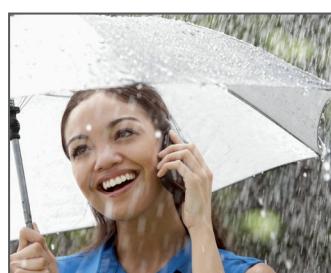
Camcorders



Front and rear views of the Series 105443 Waterproof Micro-USB Connector



Tablet PCs



Smart phones



Digital Camcorders

Micro-USB Connectors, Right Angle Waterproof (IP67-rated), Halogen-free 105443 SMT with Through-hole tabs, without Flange

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Reference Information

Packaging: Embossed Tape on Reel
Mates With: Micro-USB Cable Plugs
Terminal Used: Copper Alloy
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes
Glow Wire Compliant: No

Electrical

Voltage (max.): 30V AC (ms)
Current (max.): 1.0A (Signal pins 2, 3 and 4)
1.8A (Power pins, 1 and 5)
Low Level Contact Resistance (max.): 40 milliohms
Dielectric Withstanding Voltage: 100V AC (rms)
Insulation Resistance (min.): 1000 megohm

Mechanical

Mating Force (max.): 35N
Unmating Force: 8 to 25N
Durability: 10,000 cycles

Physical

Housing: LCP, Black, UL94V-0
Shell: Stainless Steel
Metal Tabs: Stainless Steel
Plating:
Contact Area — Gold Flash over 0.75 micron
Palladium/Nickel (Pd/Ni)
Solder Tail Area — Gold Flash
Underplating — Nickel (2.0micron min.)
Operating Temperature: -30 to +85°C

Ordering Information

Series No.	Connector	IP-Rating	Mounting Style
105443	Receptacle	IP67	Right-angle, top-mount, SMT with through-hole mounting tabs