VCELINK Waterproof RJ45 Coupler

M221

Overview

This Waterproof RJ45 Coupler (Cat6) enables stable 1000 Mbps transmission, supporting 250 MHz bandwidth. With an IP68 rating and shielded design, it works reliably in harsh environments. Compliant with TIA/EIA standards, it suits various scenarios needing waterproof, high-performance connectivity.

Benefits

Withstands harsh environments via IP68 waterproof rating
Delivers 1000 Mbps stable transmission for high-speed networks
Fits 0.20–0.26 in cables for flexible installation
Ensures a reliable connection with shielded brass design
Works in -40℃-80℃ for wide temperature adaptability
Meets TIA/EIA standards for universal compatibility

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Technical Specification

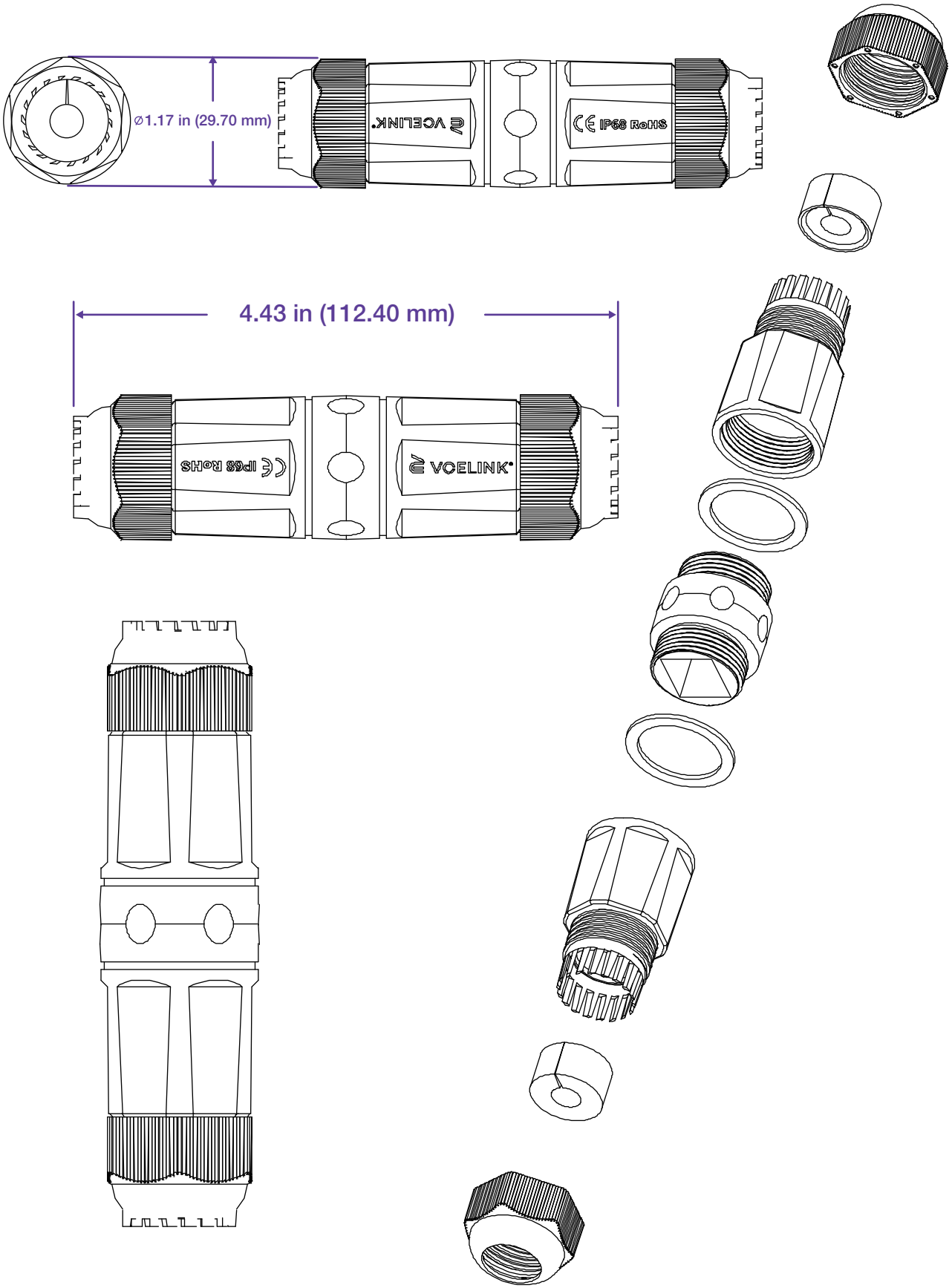
Parameter	Value
Product Type	Waterproof RJ45 Coupler
Color	Black
Weight	0.12 lbs (54 g)
Overall Dimensions	4.43 in × 1.17 in × 1.17 in (112.40 mm × 29.70 mm × 29.70 mm) (L × W × D)
Interface Type	Female to Female
Shielding Type	Shielded
Wiring Diagram	T568A/T568B
Transmission Speed	1000 Mbps
Bandwidth Support	250 MHz
Ingress Protection (IP) Rating	IP68
Nut Material	PA66 & PA6 + 30% GF
Sealing Rubber Ring Material	Silicone
Housing Material	PA66 & PA6 + 30% GF
Waterproof Washer Material	Silicone
Module Mounting Bracket Material	PA66 & PA6 + 30% GF
Shielding Material	Brass
Pins Material	Phosphor Bronze with Gold Plating
Applicable Cable Diameter	0.20–0.26 in (5–6.5 mm)
Plug Compatibility	Mates with modular plug conforming to FCC Part 68
Rated Voltage	125 V AC RMS
Rated Current	1.5 A
Contact Resistance	100 mΩ MAX
Insulation Resistance	1000 MΩ MIN @ 500 V DC
Dielectric Strength	750 V AC RMS 60 Hz, 1 min

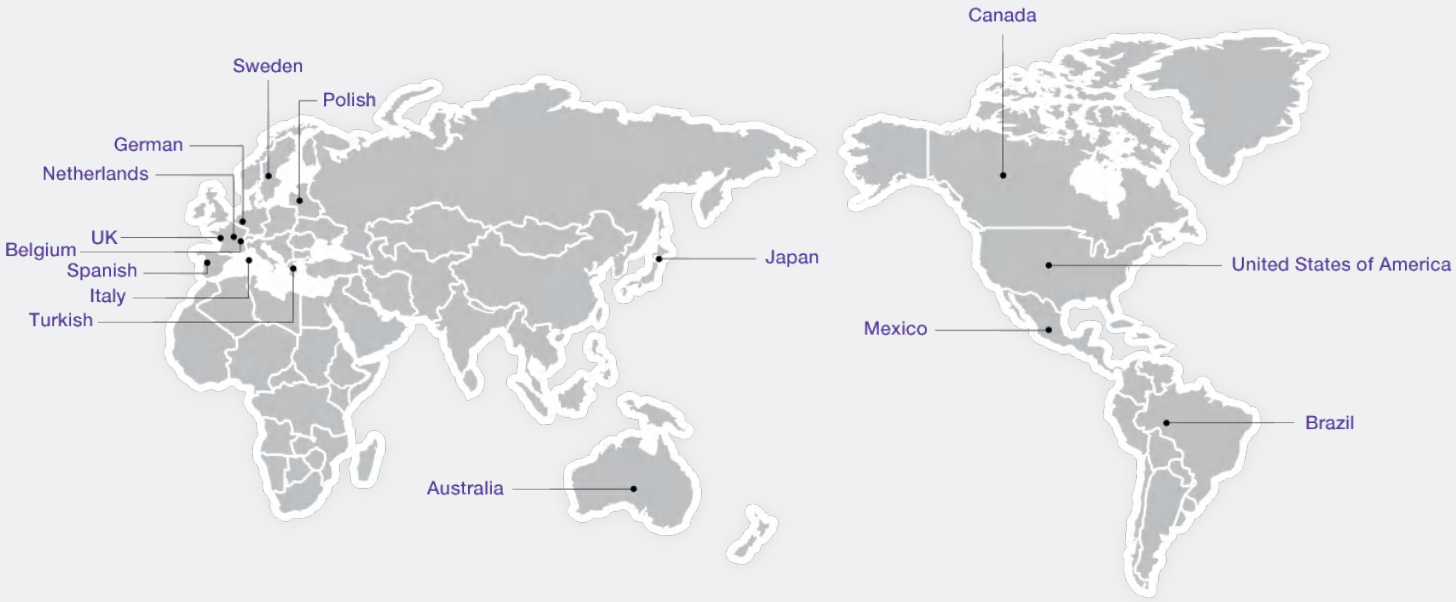
Technical Specification

Parameter	Value
Storage Temperature	-40°F-176°F (-40°C-80°C)
Operating Temperature	32°F-158°F (0°C-70°C)
Compliant Standards	TIA/EIA-568-B.2-1
Maintenance and Cleaning	Quarterly Inspection: Inspect the silicone gasket for cracks/deformation. Verify that the housing screws are tightened to the specified torque. Remove debris from the sealing surfaces using a soft brush.
Notes	IP68 does not guarantee absolute waterproofness. Its effectiveness depends on material compatibility with the environment, structural design, appropriate usage scenarios, and regular inspection/maintenance. Replace the sealing gasket every 12 months or promptly upon visible signs of wear.

Technical Specification

Unit	in/mm





https://www.vcelink.com

CompanyProfile

HANGZHOU HONGJIE ELECTRONICS CO., LTD, established in 2006, is headquartered in Hangzhou, China. Under its brand "VCELINK," the company specializes in the production and sale of high-quality network accessories, network cables, optical cables, patch cords, audio-video accessories, as well as various types of tools. These products are primarily used in the fields of structured cabling, computers, and the electronics industry. VCELINK offers personalized customization services to its customers, and in addition to online direct purchases, users can also choose bulk procurement or customized services, all aimed at meeting the unique needs of various customers.

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