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Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde and Schwarz ENY22 Coupling Network / LISN

Rohde & Schwarz ENY22 Double Two-Wire ISN Coupling Network The R&S ENY22 is a double two-wire impedance stabilization network (ISN / AAN / Y-network / CDN) for measuring asymmetrical (common-mode) RFI voltage on unshielded symmetrical telecommunication and data ports. Two independent two-wire networks and two receiver ports sit in one box (ENY41 is the four-wire sibling). Emission measurements cover 150 kHz to 30 MHz per CISPR 22 / EN 55022 / CISPR 32. The same hardware supports immunity tests from 150 kHz to 80 MHz per CISPR 24 / IEC 61000-4-6. The EUT port is terminated at 150 ohm common mode. The R&S ENY22 is a double two-wire impedance stabilization network (ISN / AAN / Y-network / CDN) for measuring asymmetrical (common-mode) RFI voltage on unshielded symmetrical telecommunication and data ports. Two independent two-wire networks and two receiver ports sit in one box (ENY41 is the four-wire sibling). Emission measurements cover 150 kHz to 30 MHz per CISPR 22 / EN 55022 / CISPR 32. The same hardware supports immunity tests from 150 kHz to 80 MHz per CISPR 24 / IEC 61000-4-6. The EUT port is terminated at 150 ohm common mode.



MODEL

Rohde & Schwarz ENY22

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ENY22

LISTING

<https://aumictechlabs.com/products/eny22-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Rohde & Schwarz ENY22 is a double 2-wire coupling network designed to measure asymmetrical (common-mode) radio frequency interference voltage on unshielded symmetrical telecommunication ports. It operates across 150 kHz to 30 MHz for conducted emission measurements, extending to 80 MHz for conducted immunity testing.

Technical Specifications

Frequency Range: 150 kHz to 30 MHz (emissions); 150 kHz to 80 MHz (immunity testing)

Network Configuration: Double 2-wire with two receiver ports

Termination Impedance: 150 Ω asymmetrical/common-mode

Symmetrical Impedance: 100 Ω

Voltage Division Factor: 10 dB typical (150 kHz to 30 MHz: ± 1 dB; 30 MHz to 80 MHz: ± 3 dB)

Transfer Bandwidth: Up to 100 MHz for symmetrical impedance of 100 Ω

Standards Compliance: CISPR22, EN55022 (emissions); CISPR24, EN55024, IEC61000-4-6 (immunity); tested and calibrated to CISPR/A/307/CD

Key Features

The ENY22 couples asymmetrical impedance to the test receiver via 10 dB voltage division while allowing useful symmetrical (differential-mode) signals to pass with minimal attenuation. The coupling network isolates the test circuit from interference effects at the auxiliary equipment port. Adapter sets are available in Type V (RJ45 connectors) and Type VI (screw-on connections) configurations to meet specific Longitudinal Conversion Loss requirements and various telecommunication standards.

Typical Applications

The ENY22 works with conducted emission measurements and immunity testing on telecommunications equipment. It enables selective measurement of common-mode interference independent of differential-mode signals, supporting standards-based compliance verification for CISPR and EN/IEC protocols.

Compatibility & Integration

The unit is housed in a single enclosure with two receiver ports. Adapter set availability allows integration with different connector types and impedance matching requirements across diverse test setups.

Features & description

From manufacturer datasheet

Features

- Two separate two-wire networks in one housing
- Adapter sets realize LCL of 50 dB, 60 dB, and 80 dB (also 55/65 dB CAT3/CAT5 class on ENY family)
- Symmetric wanted signal bandwidth up to 100 MHz at 100 ohm
- Calibration kit supplied in transport case
- AE-side decoupling of auxiliary-equipment disturbance

Applications

- Conducted common-mode emission on two-wire telecom/data ports
- Simultaneous measurement of two pairs
- Immunity coupling/decoupling per IEC 61000-4-6
- CISPR 16 Y-network / AAN measurements
- ITE ports to CISPR 22/32 and EN 55022/32

ENY22 Characteristics / Specifications

PARAMETER	VALUE
Model	ENY22
Manufacturer	Rohde & Schwarz
Instrument Type	Double two-wire ISN / AAN / CDN
Alias	ENY 22; R&S ENY22; Double 2-Wire ISN
Network Count	two independent two-wire networks
Receiver Ports	two
Sibling ENY	one four-wire network
Emission Frequency Range	150 kHz to 30 MHz
Immunity Frequency Range	150 kHz to 80 MHz
Common Mode Termination	150 ohm (asymmetrical) at EUT port
Voltage Division Factor	typ. 10 dB to the measuring receiver
Wanted Signal Bandwidth	up to 100 MHz (100 ohm symmetric)
LCL Adapter Set	50 dB, 60 dB, 80 dB
Family LCL CAT3 Class	55 dB adapters
Family LCL CAT5 Class	65 dB adapters
Emission Standards	CISPR 22:2008, EN 55022:2010, CISPR 32, EN 55032
Immunity Standards	CISPR 24, EN 55024, IEC 61000-4-6
Calibration Basis	CISPR/A/307/CD
Basic Standard Names	ISN, AAN, Y-network (CISPR 16), CDN
EUT Port Function	common-mode termination plus LCL emulation
AE Decoupling	isolates measurement from AE disturbance and impedance
Pair Capacity	two pairs simultaneously
Connector Class	telecom/data adapters plus receiver BNC class
Calibration Kit	included with adapter set in transport case
Form Factor	single-box double two-wire coupling network

PARAMETER	VALUE
Wanted Path	largely unattenuated symmetric pass-through
Disturbance Path	common-mode coupled to receiver with stated division
Intended Cables	unshielded symmetrical two-wire telecom/data Notes Specs from R&S ENY22/ENY41 coupling-network literature. Confirm installed LCL adapter set (50/60/80 dB versus CAT3/CAT5 55/65 dB class) and calibration table for the voltage division factor. ENY22 is two two-wire networks; ENY41 is one four-wire network.
Bandwidth	up to 100 MHz at 100 ohm - Calibration kit supplied in transport case - AE-side decoupling of auxiliary-equipment disturbance

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Manufacturer	Rohde & Schwarz
Instrument Type	Double two-wire ISN / AAN / CDN
Alias	ENY 22; R&S ENY22; Double 2-Wire ISN
Network Count	two independent two-wire networks
Receiver Ports	two
Sibling ENY41	one four-wire network
Emission Frequency Range	150 kHz to 30 MHz
Immunity Frequency Range	150 kHz to 80 MHz
Common Mode Termination	150 ohm (asymmetrical) at EUT port
Voltage Division Factor	typ. 10 dB to the measuring receiver
Wanted Signal Bandwidth	up to 100 MHz (100 ohm symmetric)
LCL Adapter Set	50 dB, 60 dB, 80 dB
Family LCL CAT3 Class	55 dB adapters
Family LCL CAT5 Class	65 dB adapters
Emission Standards	CISPR 22:2008, EN 55022:2010, CISPR 32, EN 55032
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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.