

Standard



Image for illustrative purpose only

Summary

[Request a quote](#)

[High speed data transfer](#)

[Customer Drawing](#)

Number of contacts Low Voltage	4
Protocol	1000 Base-T1 (1Gb/s)
Wire Size/AWG	30 - 26
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Free
Locking system	Push-pull
Jacket cable outside diameter [mm]	4.10 - 4.50 mm
Size	1T
Series	T - Small Outdoor keyed

https://www.lemo.com/int_en/solutions/originals/t-outdoor-keyed/phg-1t-512-ctlc45.html

LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO components.

Technical details

Electrical Configuration

Number of contacts Low Voltage	4
Contact Termination Low voltage	Solder
Insert configuration value	1T.512 - 2x SPE - 4 High Speed, Low Voltage (1000BASE-T1 (IEEE 802.3bp)) + 3 Ground contacts
Insulator	T: PTFE
Rated current	3 A
Vtest (contact-contact)	1.5
Number of differentiated pairs (High speed)	2
Protocol	1000 Base-T1 (1Gb/s)
Wire Size/AWG	30 - 26
Gender	Standard
Important recommendation	Up to 10 Gb/s per twisted pair when used individually (not simultaneously)

Form & Material

Shell style / Model id	PH - Free receptacle, cable collet
Socket / Receptacle	Free
Housing material	Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces
Locking system	Push-pull
Keying	G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts)
Colour	Grey
Weight	24.81 g

Environment

Technical domain	Energy and Industrial, Test and Measurement
Environmental sealing (IP rating)	IP68
Endurance	>3000 mating cycles
Temperature range	-55°C / +200°C (max. temperature valid for short periods of use.)
Climatic Category	50/175/21
Humidity (max)	<=95% [at 60 deg C /140 F]
Resistance to vibration	15 g [10 Hz - 2000 Hz]
Shock Resistance	100 g [6 ms]
Salt Spray Corrosion	>1000 hr

Cable fixation

Cable termination protection	Standard back nut (no additional protection)
Fixation type	Cable collet
Jacket cable outside diameter [mm]	4.10 - 4.50 mm

Recommended By Lemo

Accessories

Compatible cap	BRF.1T.200.CAZ
----------------	--------------------------------

Tools

Spanner	DCP.0T.110.TN
---------	-------------------------------

https://www.lemo.com/int_en/solutions/originals/t-outdoor-keyed/phg-1t-512-ctlc45.html

LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO components.