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Summary

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Number of contacts Low Voltage	7
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

Technical details

Electrical Configuration

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
Number of contacts Low Voltage	7
Number of differentiated pairs (High speed)	2
Protocol	1000 Base-T1 (1Gb/s)
Wire Size/AWG	30 - 26
Gender	Standard

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	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
Climatical 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

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

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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

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