

Data Line Protector for Ethernet Cat 5 in channel class D

3414.99.0009

Properties

- Coarse and fine protection
- All lines protected
- Maintenance free
- Conform to Category 5 in channel D (ISO/IEC 11801; EN 50173-1)
- Supports Power over Ethernet (PoE) IEEE 802.3bt
- Shield and ground separated
- Rugged metal housing for temporary outdoor installations



Product configuration	
Main path connectors	Port 1: unprotected, RJ45 jack 8-Pin jack (female) Port 2: protected, RJ45 jack 8-Pin jack (female)
Side of bulkhead	protected side

Interface and material data	
Housing material / plating	Brass / Black silver

Electrical data	
Impedance	100 Ω
Frequency frame	0 MHz to 100 MHz
Insertion loss typical	≤ 0.5 dB
Nominal voltage U_N	60 V
Operating voltage U_C	max. 60 V DC, pair to pair
Operating voltage U_C	max. 42.4 V AC, pair to pair
Operating voltage U_C	6 V , line to line
Nominal current I_L	1.5 A, per pair
Nominal discharge current I_n	100 A, (test pulse 8/20 μs), line to line
Nominal discharge current I_n	2.5 kA, (test pulse 8/20 μs), line to ground
Total nominal discharge current I_n	10 kA, (test pulse 8/20 μs), all lines to Ground
Clamping voltage	15 V, line to line
Clamping voltage	90 V, line to ground
Voltage protection level U_p	typ. 20 V, (test pulse 4 kV 1.2/50; 2 kA 8/20 μs), line to line

Data Line Protector for Ethernet Cat 5 in channel class D

3414.99.0009

Electrical data	
Voltage protection level U _p	typ. 700 V, (test pulse 4 kV 1.2/50; 2 kA 8/20 µs), line to ground
Electrical remarks	
Electrical remarks	All eight lines protected Pinning: 1/2, 3/6, 4/5, 7/8
Mechanical data	
Weight	685 g
Environmental data	
Operation temperature	-40 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Ingress protection (IP Rating)	IP68
Thermal shock according	MIL-STD-202, Method 107, Cond. B
Vibration according	MIL-STD-202, Method 204, Cond. D
Moisture resistance according	MIL-STD-202, Method 106
Comment	
Accessory 9073.99.0002, RJ45 plug kit, field assembly	
Accessory 9073.99.0003, Protective cap for data line protector	
Accessory 9073.99.0004, Protective cap for RJ45 plug kit	
Ordering Information Table	
Item number	Item description
84015998	3414.99.0009

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/ EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.
DOCUMENT PIM-P39649 / Date of publication: 31.10.2024 / uncontrolled copy