



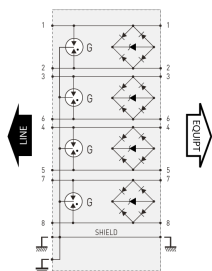
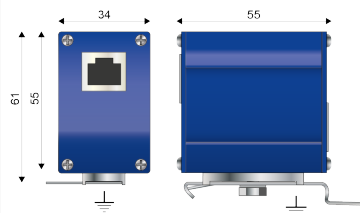
CITEL



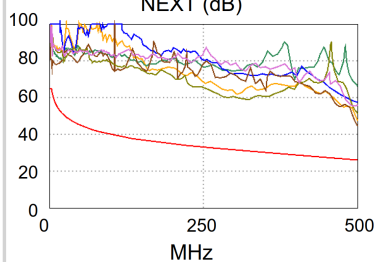
RJ45 surge protector for CAT6A cabling network

MJ8-C6A

- ▶ 10Gb (5-100m) with Cat6A S/FTP cabling
- ▶ Shielded RJ45 connectors
- ▶ Indoor applications, IP20 (NEMA 2)
- ▶ Metallic enclosure
- ▶ Conforms to IEC/EN 61643-21
- ▶ SPD categories D1, C3, C2, C1
- ▶ 16kA total surge discharge capability



G: 3-electrode GDT
NEXT (dB)



Electrical Characteristics

Network	10Gigabit Ethernet - Cat 6A cabling specification
Protection modes (network)	CM / DM
Protection modes (POE)	CM / DM (common mode / differential mode)
Transmission standard	IEEE 802.3an
Lightning Protection Zones (LPZ)	0 - 3
Max. operating voltage (DATA)	Uc 8 Vdc
Max. frequency, in the channel	f max. 500 MHz
Max. data rate	10 Gbps
Max. load current @25°C	IL 2 A
Nominal discharge current C2 (1.2/50µs / 8/20µs), 10 applications X-C (Line/Earth)	In 4 kV / 2 kA
Max. discharge current max. withstand @ 8/20 µs, X-C (Line/Earth)	Imax 2 kA
Max. discharge current max. withstand @ 8/20 µs, 8X-C (1&2+3&6+4&5+7&8 to Earth)	Imax Total 16 kA
Protection Level C3 (10/1000µs), 300 applications@10 A, Y-Y (Line/Line)	Up ≤ 20 V
Protection Level C3 (10/1000µs), 300 applications@10 A, Y-C (Line/Earth)	Up < 500 V
Impulse current D1 (10/350µs), 2 applications, X-C (Line/Earth)	Iimp 400 A
Line resistance (± 10%)	~ 0 ohms
Capacitance @1MHz, X-C (Line/Earth)	C < 5 pF

Mechanical Characteristics

Technology	GDT+TVS diode
SPD configuration	8 wires+shielded
Connection to Network	RJ45 shielded connectors Female input/output
Format	Metallic Enclosure with connectors input/output
Mounting	DIN rail / Wall / Plate
Accessory(s) provided	Screw, washer, cable shoe, earthing plate, DIN rail adapter
Housing material	Metallic
Operating temperature	Tu -40/+85°C
Ingress Protection rating	IP20 (NEMA 2)
Failsafe mode	Transmission cut-off - Fault mode 2 (short-circuit)
Pinout	(1-2)(3-6)(4-5)(7-8)
Dimensions	See diagram

Standards

Standards compliance	IEC 61643-21 / EN 61643-21 / UL497B / IEEE 802-3an
UL Category	QVGG - Isolated Loop Circuit Protectors
UL File Number	E184939
Certification	UL listed
Environmental standards	EU RoHS

Part number

581540

