

Data Line Protectors — continued

Telecom Lightning Protector



H = 75, W = 110, D = 28  
Fixing centres = 90 55, 4mm dia  
Cable length = 0.37m

- Protects telemetry equipment from lightning surges
- BAPT certified OFTEL approved
- Maintenance free operation
- Resets automatically after surge
- Full 4 wire protection

Surge protection 10,000A In-line resistance 5 $\Omega$  per line FIL283

Mfrs. List No.	Order Code	1+	5+	10+
DP200/BT	304-7714			

Line Transient Barriers  
DIN Rail Mounting



H = 83, W = 25, D = 79

- High density DIN rail mounting surge barriers for use on telemetry, control loops and similar Private Wire application
- Designed and manufactured to exceed IEC801.5 Level 4 requirements.
- BT Approval No. NS/2190/2/F/450911
- Suitable for mounting onto symmetric or asymmetric DIN rails, see Page «177126»

APPROVED for installation in telecommunications systems specified in the industry codes quoted in the conditions of sale.

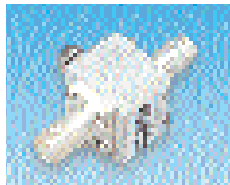
Clamping voltage	Line resistance	43 $\Omega$
DP30/D 30V	DC insertion loss	0.6dB (at 600 $\Omega$ )
DP51/D 51V	Bandwidth	210kHz (typical)
	Surge rating	10kA (8/20 $\mu$ s)

FIL121

Clamping Voltage	Mfrs. List No.	Order Code	1+	5+	10+	25+
30V	DP30/D	529-151				
51V	DP51/D	529-163				

Aerial Protectors

Coax Arrestor



L = 60, W = 25, H = 25  
(excluding mounting bracket)

- The CA aerial protector is a high energy coax arrestor with a very high bandwidth and low voltage standing wave ratio (VSWR)
- The unit with BNC connectors is easily mounted and precision engineered from nickel plated aluminium to resist corrosion even in severe conditions
- It will protect receivers or transmitters from lightning, NEMP (Nuclear Electro-Magnetic Pulse) and other surges picked up by aerial installations
- Built to satisfy both JIS and MIL standards

Clamping voltage	90V	Bandwidth	1GHz
Characteristic impedance	50 $\Omega$	VSWR	<1.2
Surge rating	10kA (8/20 $\mu$ s)	Insertion loss	<0.3dB
Max. transmitter power	60W	Mfrs. List No.	CA90B

FIL62

Order Code	1+	5+	10+	25+	50+
.178-738	171.00				

Power Entry Filters

Phase Shield  
Single & Three Phase



H = 240, W = 160, D = 91

- High level of protection from lightning induced voltage surges on the mains power supply.
- Fully tested to BS6651 Category C
- Designed to handle surges up to 20,000 amps
- Auto resetting - no maintenance required
- Full status indication for all protection circuits
- Remote status indication via volt free contacts
- Wall mounting enclosure offering IP65 protection, excluding the glands
- RFI filtered option - MA2001/F provides up to 20A of RF filtered output
- Suitable for all current rating as the unit is shunt connected. Filtered option is rated at 20A Max

Peak surge current 20kA Multiple discharge current 20 shots @ 10kA  
Limiting voltage <900V Filtered option attenuation 65 dB @ 10 MHz

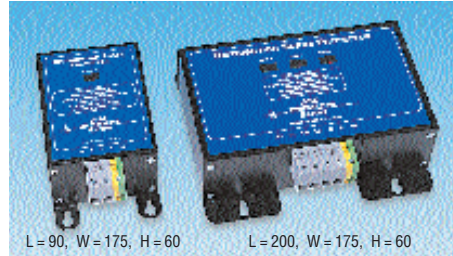
FIL228

Type	Mfrs. List No.	Order Code	1+	5+	10+	25+
1 Phase-240V	MA2001/240V	927-612				
3 Phase-415V	MA2003/415V	927-624				

**Filtered Option**  
1 Phase-240V 20A MA2001/F/240V 927-636

Distribution Surge Protectors

Bowthorpe



L = 90, W = 175, H = 60 L = 200, W = 175, H = 60

- Provides an economic means of preventing damage to electrical distribution systems from mains borne transient voltages. These can occur when capacitive or inductive loads are switched, or as a result of a nearby lightning strike.
- Housed in an epoxy painted steel case. Designed to meet BS6651 1992 Appendix C Location Category C - Primary Protection

Surge current handling Max. (8/20 $\mu$ s) 20kA Terminals 16mm<sup>2</sup>  
Response time <10 ns Operating temp. -40°C to 70°C

Voltage rating Single Phase 230V Three Phase 400V  
Leakage current 200 $\mu$ A 600 $\mu$ A

Mfrs. List No. DSP1BOW = 580-120, DSP3-BOW = 580-132 FIL138

Order Code	1+	5+	10+
Single Phase .580-120			
Three Phase .580-132			

Surge Protector  
6651C/3

Bowthorpe



H = 61, W = 81, D = 182, Lead Length = 500  
FC = 168 36 Dia 5

- Distribution system protection from mains borne voltage spikes and surges
- High energy elements absorb or re-direct mains borne transients
- 2 stage varistor protection
- Lights indicate status of protection
- Quick and easy to install, no complicated by-pass wiring
- Can be installed at any angle, as close as possible to distribution panel
- Designed to meet BS6651 1992 Appendix C Location Category C

	Single Phase 6651C/1	Three Phase 6651C/3
Voltage rating	230V rms	400V rms
Max surge handling (8/20 $\mu$ s)	10kA	10kA
Response time	<10ns	<10ns
Cable supplied (0.5m)	3 core 2.5mm <sup>2</sup>	5 core 2.5mm <sup>2</sup>
Indicator lights	Green - Full protection Red/Green - reduced protection Red - no protection	Green - Full protection Red/Green - reduced protection Red - no protection
IP Rating	IP54	IP54 <span style="float: right;">FIL208</span>

Order Code	1+	5+	10+	25+	50+
Single Phase .869-569					
Three Phase .869-570					