

# DIN Rail Plug-In Surge Protectors for Telecom

## DLA, DLA2 Series



- DIN Rail Mounted Pluggable Surge Protector
- Removable Module for Easy Maintenance
- Multiple Configurations for All Applications
- Shielded Wire Protection
- With or Without Line Cut Capabilities
- 2- Pair Versions Available (DLA2)
- Multiple Grounding Options
- UL 497B Listed

DLA -xxx

Bit-rate (D3 or DBC)

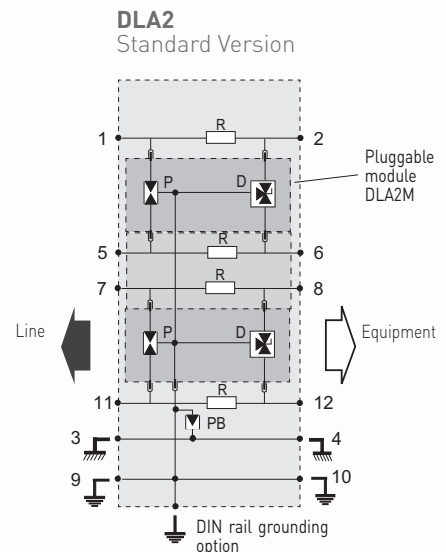
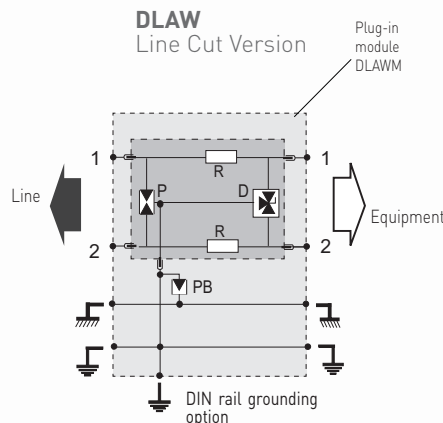
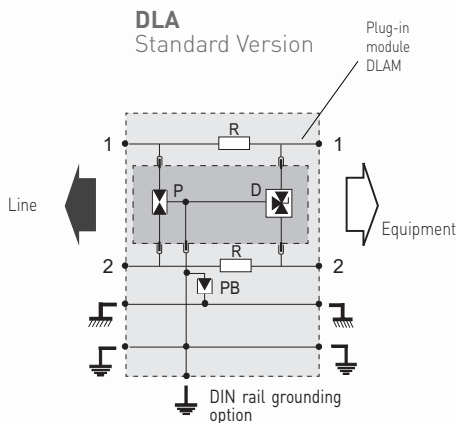
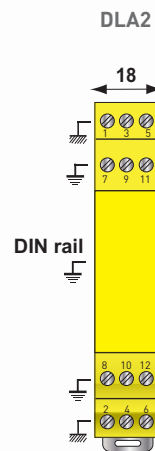
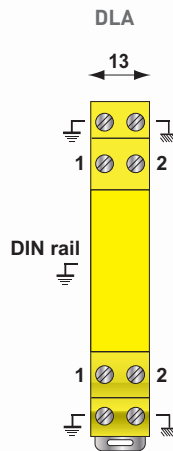
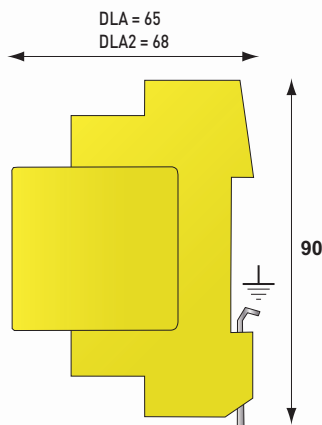
Nominal voltage

«1» : 1 pair

«2» : 2 pairs

## Dimensions and Electrical Diagrams

(in mm)



P : 3-electrode gas discharge tube  
Pb : 2-electrode gas discharge tube  
R : Resistor  
D : 3-pole clamping diode

# DIN Rail Plug-In Surge Protector for Telecom

## DLA, DLA2 Series

### Characteristics

| Configuration                                               | CITEL Part Number                                                                                                                                                                                                                                                                                                    |                       |                                  |                       |                       |                       |                         |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------|-----------------------|-----------------------|-----------------------|-------------------------|
| 1 pair<br>2 pairs                                           | DLA-170<br>DLA2-170                                                                                                                                                                                                                                                                                                  | DLA-48D3<br>DLA2-48D3 | DLA-48DBC<br>DLA2-48DBC          | DLA-24D3<br>DLA2-24D3 | DLA-12D3<br>DLA2-12D3 | DLA-06D3<br>DLA2-06D3 | DLA-06DBC<br>DLA2-06DBC |
| Application                                                 | Telephone line<br>ADSL<br>SDSL-SHDSL                                                                                                                                                                                                                                                                                 | ISDN-T0<br>48V line   | Fipway - WorldFIP<br>Fieldbus-H2 | Leased Line<br>4-20mA | RS232<br>RS485        | RS422                 | MIC/T2<br>10BaseT       |
| Nominal Line Voltage (Un)                                   | 150V                                                                                                                                                                                                                                                                                                                 | 48V                   | 48V                              | 24V                   | 12V                   | 6V                    | 6V                      |
| Maximum Line Voltage (Uc)                                   | 170V                                                                                                                                                                                                                                                                                                                 | 53V                   | 53V                              | 28V                   | 15V                   | 8V                    | 8V                      |
| Maximum Line Current                                        | 300mA                                                                                                                                                                                                                                                                                                                | 300mA                 | 300mA                            | 300mA                 | 300mA                 | 300mA                 | 300mA                   |
| Maximum Frequency                                           | > 10MHz                                                                                                                                                                                                                                                                                                              | > 3MHz                | > 20MHz                          | > 3MHz                | > 3MHz                | > 3MHz                | > 20MHz                 |
| Protection Level (Up)<br>8/20µs impulse - 5 kA              | 220V                                                                                                                                                                                                                                                                                                                 | 70V                   | 75V                              | 40V                   | 30V                   | 20V                   | 25V                     |
| Nominal Discharge Current (In)<br>8/20µs impulse - 10 times | 10kA                                                                                                                                                                                                                                                                                                                 | 10kA                  | 10kA                             | 10kA                  | 10kA                  | 10kA                  | 10kA                    |
| Maximum Discharge Current (Imax)<br>8/20µs impulse - 1 time | 20kA                                                                                                                                                                                                                                                                                                                 | 20kA                  | 20kA                             | 20kA                  | 20kA                  | 20kA                  | 20kA                    |
| Impulse Current (Iimp)<br>10/350µs impulse - 2 times        | 5kA                                                                                                                                                                                                                                                                                                                  | 5kA                   | 5kA                              | 5kA                   | 5kA                   | 5kA                   | 5kA                     |
| End of Life                                                 | Short-circuit                                                                                                                                                                                                                                                                                                        | Short-circuit         | Short-circuit                    | Short-circuit         | Short-circuit         | Short-circuit         | Short-circuit           |
| Mechanical Characteristics                                  |                                                                                                                                                                                                                                                                                                                      |                       |                                  |                       |                       |                       |                         |
| Configuration                                               | DLA = 1 pair + shield<br>DLA2 = 2 pairs + shield                                                                                                                                                                                                                                                                     |                       |                                  |                       |                       |                       |                         |
| Dimensions                                                  | See drawing                                                                                                                                                                                                                                                                                                          |                       |                                  |                       |                       |                       |                         |
| Mounting                                                    | Symmetrical DIN rail                                                                                                                                                                                                                                                                                                 |                       |                                  |                       |                       |                       |                         |
| Operating Temp.                                             | -50°C to +85°C                                                                                                                                                                                                                                                                                                       |                       |                                  |                       |                       |                       |                         |
| Wiring                                                      | Connection by screw - min/max. cross section 0.4/1.5 mm²                                                                                                                                                                                                                                                             |                       |                                  |                       |                       |                       |                         |
| Housing Material                                            | Thermoplastic UL94-V0                                                                                                                                                                                                                                                                                                |                       |                                  |                       |                       |                       |                         |
| Earth Connection                                            | Via DIN rail and screw terminal                                                                                                                                                                                                                                                                                      |                       |                                  |                       |                       |                       |                         |
| Replacement Module                                          | DLA : DLAM-xxx<br>DLA2 : DLA2M-xxx                                                                                                                                                                                                                                                                                   |                       |                                  |                       |                       |                       |                         |
| Versions                                                    | DLA-xxx : standard version (line continuity after removal of plug-in module)<br>DLAW-xxx : specific version (line cut-off after removal of plug-in module)<br>DLAH-xxx : remote supply version (maximum line current = 2.4 A)<br>DLA2-xxx : standard version (line continuity in case of removal of plug-in modules) |                       |                                  |                       |                       |                       |                         |
| Standard Compliance                                         |                                                                                                                                                                                                                                                                                                                      |                       |                                  |                       |                       |                       |                         |
| NF EN 64643-21 (France)<br>UL497B (USA)                     | Surge protectors for communication circuits - Test categories C2 and D1<br>Surge protectors for communication circuits                                                                                                                                                                                               |                       |                                  |                       |                       |                       |                         |
| Part Number                                                 |                                                                                                                                                                                                                                                                                                                      |                       |                                  |                       |                       |                       |                         |
| DLA                                                         | 6406011                                                                                                                                                                                                                                                                                                              | 6403021               | 640421                           | 6403011               | 6402011               | 6401011               | 640121                  |
| DLA2                                                        | 640611                                                                                                                                                                                                                                                                                                               | 640312                | 640431                           | 640311                | 640211                | 640111                | 640131                  |

