Power • Protect • Connect

Supporting Information & Communications Technology (ICT)

Short Form Brochure

75 YEARS OF INNOVATION
75TH
BOURNS®
ANNIVERSARY
1947 2022

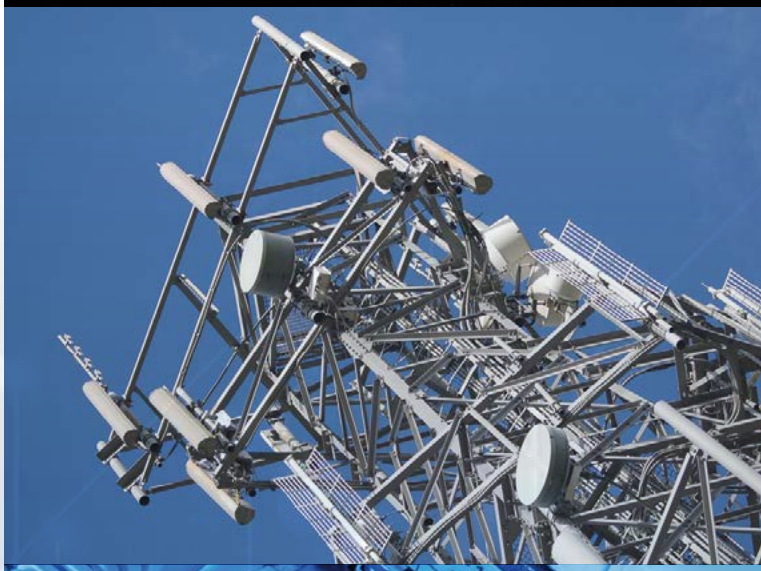
Introduction

Bourns delivers leading components and solutions in circuit protection, circuit conditioning and sensing for information and communications equipment designed by the OEM, ODM, communications chipset supplier, telecom operator and system integrator, alike. Working with all aspects of the Information and Communications Technology (ICT) network provides Bourns with valuable knowledge of the requirements needed to Power - Protect - Connect these technologies and affords the expertise to provide creative and cost-effective solutions, making it the industry leader. These solutions include Bourns® circuit protection components integrated into board level assemblies, modules and standalone systems.

Providing superior protection for voice, data and power networks, Bourns® products are designed to safeguard sensitive equipment from damaging electrical surge or other detrimental power events. On-board component level protection, modules and standalone systems provide flexibility to address constantly changing network requirements and threats. Bourns engineers design the highest quality into all aspects of product development and manufacturing, ensuring highly reliable products.

Bourns offers a comprehensive portfolio of industry-leading power, protection and connection solutions that have been field proven. These solutions help ensure operation of the highest reliability in a broad range of applications, including POTS infrastructure equipment, SLIC at the central office and access points of the copper and xPON networks.

Bourns provides complete end-to-end solutions for the Information and Communication Technology applications, be it in the central office, head-end, data center, outside plant access points or customer location.



Power

AC and DC powered communications equipment is susceptible to damage from the direct or indirect effects of lightning in addition to surges caused by switching, falling power lines and even other equipment attached to the power grid. The destructive effects of overvoltage can cause breakdown of semiconductor junctions and dielectric breakdown of passive components as well as damage to printed circuit boards which may result in equipment failure.

Power Application Devices

For AC and DC power, Bourns offers heavy duty Surge Protective Devices (SPDs) in Din-Rail and Box-type form factors for use in Service Entrance, Branch Panel and Equipment Level applications.

AC Surge Protective Devices

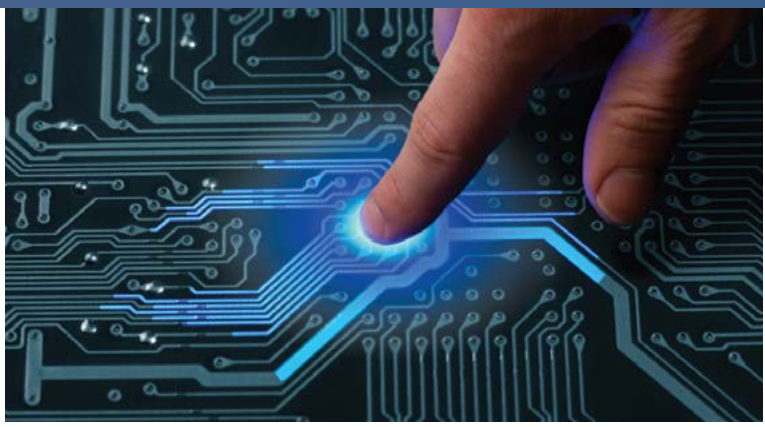
Photo	Model Series	Description	Applications
	1202 Series	• General purpose hybrid SPD • 25 kA 8/20 µs rating • Rated for indoor or outdoor use	AC Service Entrance
	1251 Series	• Heavy duty hybrid SPD • 50 kA, 8/20 µs rating • Rated for indoor or outdoor use	AC Service Entrance
	1252 Series	• Heavy duty hybrid SPD • 50 kA, 8/20 µs rating • Rated for indoor or outdoor use • Filtering	AC Branch Panel Equipment Level
	1214 Series	• Heavy duty SPD • 100 kA, 8/20 µs rating • Rated for indoor or outdoor use	AC Service Entrance
	1224 Series	• Heavy duty SPD • 200 kA, 8/20 µs rating • Rated for indoor or outdoor use	AC Service Entrance
	1210 Series	• Heavy duty Din-Rail type SPD • 50 kA, 8/20 µs rating • 1 - 4 pole configurations	AC Branch Panel Equipment Level
	1250 Series	• Heavy duty Din-Rail type SPD • 100 kA, 8/20 µs rating • 1 - 4 pole configurations	AC Branch Panel Equipment Level

DC Surge Protective Devices

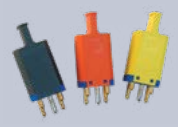
Photo	Model Series	Description	Applications
	1320 Series	• Din-Rail type SPD for DC systems	12 V - 110 V DC Power Systems
	1420 Series	• Din-Rail type SPD for high voltage DC systems	Photovoltaic Systems up to 1200 V

Protect

Bourns® Surge Protective Devices (SPDs) are designed to protect sensitive equipment from damage caused by lightning and electrical transient surges. SPDs are protective devices that integrate discrete circuit protection devices into an assembly or system that provides an enhanced level of functionality and protection. SPDs are designed to protect many types of electronic, electrical, data communication and telecommunication equipment.



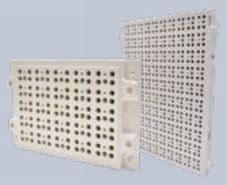
Communications & Signal Surge Protective Devices

Photo	Model Series	Type	Description	Applications
	24xx Series	5-Pin Surge Protectors	5-pin type protectors are available with Gas Discharge Tube and solid state technologies.	Broadband voice, data circuits, ADSL, ADSL2+ G. Fast, VDSL, VDSL2, high-speed Ethernet,
	2377 Series	Station Protector	A new generation telecommunications station protector designed to be the best all-around choice for protecting copper pair voice-band and high-speed data circuits.	POTS, high-speed data, ISDN, ADSL, ADSL2+ G. Fast, VDSL, VDSL2, xDSL
	1500 Series	Indoor Protector	High-speed data line SPD for indoor/controlled environments.	Gigabit Ethernet
	1530 Series	Indoor Protector	High-speed data line SPD for indoor/controlled environments.	PoE (Power over Ethernet)
	1540 Series	Outdoor Protector	Multi-staged high speed protector contained in a high-impact resistant and flame-retardant enclosure.	PoE (Power over Ethernet)
	1977 Series	Coaxial	DC-5 Ghz SPD available with N, F Connectors	GPS, Cellular, CATV, Microwave
	1740 Series	Coaxial	DC-1 Ghz, 75 ohm	75 Ω Coaxial (CATV)

Connect

The connection and termination of communication lines is the foundation for a reliable and sustainable network, and Bourns® connectivity products, backed by years of expertise and experience, are the solution to a successful deployment for voice and data lines. Bourns® connectivity products are available as standard or custom made solutions, with a variety of terminals and pair count.

Networks & Connected Equipment

Photo	Model Series	Type	Description	Applications
	C(G)-391	100-Pair Connector	Bourns® Model C(G)-391 connector is our most compact 100-pair central/remote office connector. This 238 mm high (9.37 in.), narrow profile connector is designed to increase frame capacity without sacrificing valuable workspace. One 303-type connector can be replaced by two C(G)-391 connectors – doubling the pair count in the same space.	CO, PABX
	139 Series	Versablock® Rotating Terminal Block	Versablock® rotating terminal blocks are a family of rotating terminal blocks that offer termination arrangements configured for decimal and octal pair-count applications. Jumper wires are routed through front and rear fanning strips. The front slots are aligned with the wire-dressing channels between terminal rows. This allows rapid cross-connect wire identification and promotes orderly dressing.	Termination of line drawers, trunk modules, tie pairs, transmission channel banks, CO, PABX
	BLK Series	5-Pin Protector Module Panels	Bourns® Model BLK series 5-pin protector module panels are designed to supply protection for circuits being provided on twisted pair. The modular protector panels are Cat 5 or higher compatible and can be easily sized to a variety of port counts for broadband applications. A large variety of module capacities are available by combining various standard 10, 20, 25, 50 and 100 pair models.	PABX, remote cabinets, CEV, huts and pedestal applications
	7091 Series	Network Interface Device	Bourns® Model 7091 NID provides a secure and weather-resistant enclosure for Telco service for residential or commercial installations. The 7091 is designed for termination and protection of various combinations of subscriber services including twisted pair, DSL and coaxial lines. The 7091 series features plenty of working space for wire management.	Protected interfaces, Coax
	BBT Series	Building Terminal	Bourns® Model BBT is a building terminal to supply protection for circuits being provided on twisted pair. The BBT uses standard 5-pin protector modules to provide overvoltage protection from harmful transient voltage surges such as lightning, AC power cross and transients.	RT, PABX

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Bourns® products are available through an extensive network of manufacturer's representatives, agents and distributors. To obtain technical applications assistance, a quotation, or to place an order, contact a Bourns representative in your area.

Specifications subject to change without notice. Actual performance in specific customer applications may differ due to the influence of other variables. Customers should verify actual device performance in their specific applications.

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