



## 3M™ Multi-Pair Protection Magazine SOR CH

3M offers a full range of solutions for network protection that are designed to protect personnel and equipment. They comply with major international standards and service providers' specifications.

3M™ Multi-Pair Protection Magazines SOR CH are designed for use with the 8- and 10-pair 3M™ High Density Cross-Connect Module STG2000 Series. They provide multi-pair protection against high voltage surges to copper pairs of most voice and data, fixed and wireless network applications. SOR CH protection magazines maintain the density provided by the STG2000 cross-connect modules, making them very adaptable to congested main distribution frames (MDF) in central offices as well as the confined spaces of remote terminals, shelters or telecom closets in residential or corporate buildings.

SOR CH protection magazines include a 3-pole non-radioactive gas discharge tube (GDT) or surge arrester equipped with a fail-safe device. The common chamber 3-electrode gas tube provides balanced protection. A surge voltage on either side of the circuit causes the entire gas tube to ionize and provides a simultaneous path to ground for both tip and ring. In case of a lasting surge, the fail-safe will melt and short to ground.

SOR CH protection magazines can be added during installation or removed separately for replacement without disturbing working lines or other protection magazines. SOR CH protection magazines with earth cord can be used whenever adding overvoltage protection to existing STG2000 MDFs or cross-connect fields is required.



3M™ Multi-Pair Protection Magazine SOR CH 8

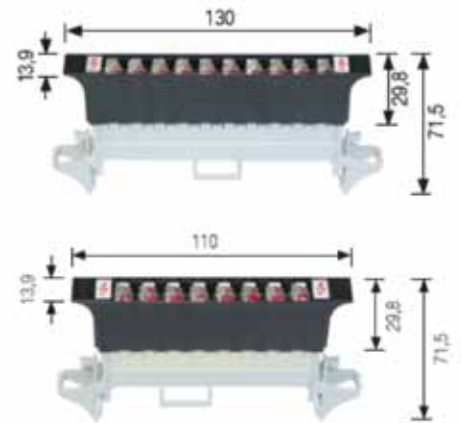


3M™ Multi-Pair Protection Magazine SOR CH 10

# 3M™ Multi-Pair Protection Magazine SOR CH

## Specifications

Insulation resistance	
Between tip and ring	> 10 GΩ
Between tip/ring and ground	> 10 GΩ
Leading through resistance	
Between ground contacts and frame	< 40 mΩ
Arrestor specifications	
Characteristics	
Reference	C231039A
DC spark over voltage (100 v/s)	250 V ± 20%
DC spark over voltage (1 kV /micro s)	< 600 V
Nominal impulse discharge current	10 KA
(wave 8/20)	(total current)
Nominal alternative discharge current	10 A
(50 Hz)	(total current)
Insulation resistance	10 GΩ



## Dimensions

	Length	Height	Width
SOR CH 8 alone	110 mm / 4.33 in.	29.8 mm / 1.17 in.	13.9 mm / 0.54 in.
SOR CH 8 mounted on STG2000	110 mm / 4.33 in.	71.5 mm / 2.81 in.	13.9 mm / 0.54 in.
SOR CH 10 alone	130 mm / 5.12 in.	29.8 mm / 1.17 in.	13.9 mm / 0.54 in.
SOR CH 10 mounted on STG2000	130 mm / 5.12 in.	71.5 mm / 2.81 in.	13.9 mm / 0.54 in.

## Environmental

Operating temperature range	-10°C to 60°C
Storage temperature range	-40°C to 90°C
Flammability rating	UL 94 V-0 materials used
RoHS: compliant with EU RoHS Directive (2005/95/EC)*	

### Compliant with EU RoHS Directive (2005/95/EC)

“RoHS Compliant 2005/95/EC” means that the product or part (“Product”) does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under RoHS. This information represents 3M’s knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

# 3M™ Multi-Pair Protection Magazine SOR CH

## Ordering Information

Model Number	Description	Stock Number	Minimum Order
C233726B	Multi-Pair Protection Magazine SOR CH 10 Pairs - Empty	FQ100004537	20
C233740B	Multi-Pair Protection Magazine SOR CH 10 Pairs with 250 V GDT	FQ100004578	20
C233741B	Multi-Pair Protection Magazine SOR CH 10 Pairs with 350 V GDT	FQ100004586	400
C233727C	Multi-Pair Protection Magazine SOR CH 8 Pairs with Earth Cord 0.75 M / 2.46 Ft. - Empty	FQ100004545	20
C233728B	Multi-Pair Protection Magazine SOR CH 10 Pairs with Earth Cord 0.75 M / 2.46 Ft. - Empty	FQ100004552	20
C231039A	3-Pole GDT - 250 V with Fail-Safe	FQ100027579	500
C222053A	GDT Insertion / Extraction Tool SOR OEP	FQ100027504	10

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