

MCO4 - ANALOG STATION SET & CENTRAL OFFICE LINE PROTECTOR

ORDERING INFORMATION

ITW Linx Part Number	Description
MCO4	Protects up to 4-wires (2-pairs) per jack. Using RJ-11/45 connectors (2 In/ 2 Out, Pins 3 & 6 and 4 & 5 protected).

* Questions about ordering? Please contact us at **1-800-336-LINX** / Contact an authorized distributor for pricing * (MOQ: 6)

TECHNICAL SPECIFICATIONS

PRODUCT SPECIFICATIONS:

Agency Approval	UL 497A (Secondary)
Grounding Requirements	Uses Electrical AC Ground
.....	for use with SurgeGate Series AC Base Units.
.....	See Technical Reference page 83-84 for additional grounding tips.
Recommended Grounding Impedance	<0.5 Ohm
Width	4.25"
Height	4.25"
Depth	1.5"
Weight	0.40 lbs
Product Warranty	Lifetime
Connected Equipment Warranty	Up to \$50,000

SIGNAL LINE SURGE PROTECTION: (TELCO)

Signal Perfect Circuitry	Yes
Auto-Resetting PTCs	160 mA (8-10 Ohms)
Clamping Level	260V (T-R, T-G, R-G)
Response Time	1-5 Nanoseconds
Capacitance	<50pF
Suppression Modes	Metallic & Longitudinal
Wires Protected	4-wires (2-pairs) per jack (pins 3, 6 & 4, 5)
Termination Type	RJ-14/45



MODULAR PROTECTOR

SURREGATE SERIES



Features:

- **Auto-Resetting Technology** - PTC resistors open when a surge occurs, protecting your equipment, but unlike other fuses, the PTCs close again once the surge passes. Less downtime, and less service calls
- **Expandable System Protection** - SurgeGate Series Base Units and Modules can be attached to expand system protection as your system grows
- **Lifetime Product Warranty** - This surge protector shall be free of any defects in design, materials, or workmanship, or ITW Linx will repair or replace the defective product
- **\$50,000 Connected Equipment**

For up-to-date warranty information, please visit our web site at www.itwlinx.com.



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MCO4X4 - ANALOG STATION SET & CENTRAL OFFICE LINE PROTECTOR

ORDERING INFORMATION

ITW Linx Part Number	Description
MCO4X4	Protects up to 2-wires (1-pair) per jack. Using RJ-11/45 connectors (pins 4, 5).

* Questions about ordering? Please contact us at **1-800-336-LINX** / Contact an authorized distributor for pricing * (MOQ: 6)

Features:

- **Auto-Resetting Technology** - PTC resistors open when a surge occurs, protecting your equipment, but unlike other fuses, the PTCs close again once the surge passes. Less downtime, and less service calls
- **Expandable System Protection** - SurgeGate Series Base Units and Modules can be attached to expand system protection as your system grows
- **Lifetime Product Warranty** - This surge protector shall be free of any defects in design, materials, or workmanship, or ITW Linx will repair or replace the defective product
- **\$50,000 Connected Equipment**
- **AVAYA** approved products:
146C, 407228923

TECHNICAL SPECIFICATIONS

PRODUCT SPECIFICATIONS:

Agency Approval	UL 497A (Secondary)
Grounding Requirements	Uses Electrical AC Ground
.....	for use with SurgeGate Series AC Base Units.
.....	See Technical Reference page 83-84 for additional grounding tips.
Recommended Grounding Impedance.....	<0.5 Ohm
Width.....	4.25"
Height.....	4.25"
Depth	1.5"
Weight	0.43 lbs
Product Warranty	Lifetime
Connected Equipment Warranty	Up to \$50,000

SIGNAL LINE SURGE PROTECTION: (TELCO)

Signal Perfect Circuitry	Yes
Auto-Resetting PTCs	160 mA (8-10 Ohms)
Clamping Level	260V (T-R, T-G, R-G)
Response Time	1-5 Nanoseconds
Capacitance.....	<50pF
Suppression Modes	Metallic & Longitudinal
Wires Protected	2-wires (1-pair) per jack (pins 4, 5)
Termination Type	RJ-11/45

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MCO4110 - ANALOG STATION SET & CENTRAL OFFICE LINE PROTECTOR

ORDERING INFORMATION

ITW Linx Part Number	Description
MCO4110	Protects up to 8-wires (4-pairs) using 110 punchdown block on the input and 110 punchdown block or four RJ-11 or two RJ-45 on the output.

* Questions about ordering? Please contact us at **1-800-336-LINX** / Contact an authorized distributor for pricing * (MOQ: 6)

TECHNICAL SPECIFICATIONS

PRODUCT SPECIFICATIONS:

Agency Approval	UL 497A (Secondary)
Grounding Requirements	Uses Electrical AC Ground
.....	for use with SurgeGate Series AC Base Units.
.....	See Technical Reference page 83-84 for additional grounding tips.
Recommended Grounding Impedance.....	<0.5 Ohm
Width.....	5.87"
Height.....	4.25"
Depth	1.5"
Weight	0.45 lbs
Product Warranty	Lifetime
Connected Equipment Warranty	Up to \$50,000

SIGNAL LINE SURGE PROTECTION: (TELCO)

Signal Perfect Circuitry	Yes
Auto-Resetting PTCs	160 mA (8-10 Ohms)
Clamping Level260V (T-R, T-G, R-G)
Response Time	1-5 Nanoseconds
Capacitance.....	<50pF
Suppression Modes	Metallic & Longitudinal
Wires Protected	8-wires (4-pairs)
Termination Type	110 punchdown Input
.....	RJ-11/45 or 110 punchdown Output

Features:

- **Auto-Resetting Technology** - PTC resistors open when a surge occurs, protecting your equipment, but unlike other fuses, the PTCs close again once the surge passes. Less downtime, and less service calls
- **Expandable System Protection** - SurgeGate Series Base Units and Modules can be attached to expand system protection as your system grows
- **Lifetime Product Warranty** - This surge protector shall be free of any defects in design, materials, or workmanship, or ITW Linx will repair or replace the defective product
- **\$50,000 Connected Equipment**
- **AVAYA** approved products:
146J, 700209802

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SERIES



MC08110 - ANALOG STATION SET & CENTRAL OFFICE LINE PROTECTOR

ORDERING INFORMATION

ITW Linx Part Number	Description
MC08110	Protects up to 16-wires (8-pairs) using 110 punchdown block on the Input and 110 punchdown block on the Output.

* Questions about ordering? Please contact us at **1-800-336-LINX** / Contact an authorized distributor for pricing * (MOQ: 6)

TECHNICAL SPECIFICATIONS

PRODUCT SPECIFICATIONS:

Agency Approval	UL 497A (Secondary)
Grounding Requirements	Uses Electrical AC Ground
.....	for use with SurgeGate Series AC Base Units.
.....	See Technical Reference page 83-84 for additional grounding tips.
Recommended Grounding Impedance	<0.5 Ohm
Width	5.87"
Height	4.25"
Depth	1.5"
Weight	0.45 lbs
Product Warranty	Lifetime
Connected Equipment Warranty	Up to \$50,000

SIGNAL LINE SURGE PROTECTION: (TELCO)

Signal Perfect Circuitry	Yes
Auto-Resetting PTCs	160 mA (8-10 Ohms)
Clamping Level	260V (T-R, T-G, R-G)
Response Time	1-5 Nanoseconds
Capacitance	<50pF
Suppression Modes	Metallic & Longitudinal
Wires Protected	16-wires (8-pairs)
Termination Type	110 punchdown



MODULAR PROTECTOR

SURREGATE SERIES

Features:

- **Auto-Resetting Technology** - PTC resistors open when a surge occurs, protecting your equipment, but unlike other fuses, the PTCs close again once the surge passes. Less downtime, and less service calls
- **Expandable System Protection** - SurgeGate Series Base Units and Modules can be attached to expand system protection as your system grows
- **Lifetime Product Warranty** - This surge protector shall be free of any defects in design, materials, or workmanship, or ITW Linx will repair or replace the defective product
- **\$50,000 Connected Equipment**
- **AVAYA** approved products: 146K, 700209810

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MCO25 - ANALOG STATION SET & CENTRAL OFFICE LINE PROTECTOR

ORDERING INFORMATION

ITW Linx Part Number	Description
MCO25	Protects 25-pairs using RJ-21X (Amphenol) connectors (pins 1-50, Male In / Female Out).

* Questions about ordering? Please contact us at **1-800-336-LINX** / Contact an authorized distributor for pricing * (MOQ: 6)

TECHNICAL SPECIFICATIONS

PRODUCT SPECIFICATIONS:

Agency Approval	UL 497A (Secondary)
Grounding Requirements	Uses Electrical AC Ground
.....	for use with SurgeGate Series AC Base Units.
.....	See Technical Reference page 83-84 for additional grounding tips.
Recommended Grounding Impedance	<0.5 Ohm
Width	4.25"
Height	5.87"
Depth	1.5"
Weight	0.80 lbs
Product Warranty	Lifetime
Connected Equipment Warranty	Up to \$50,000

SIGNAL LINE SURGE PROTECTION: (TELCO)

Signal Perfect Circuitry	Yes
Auto-Resetting PTCs	160 mA (8-10 Ohms)
Clamping Level	260V (T-R, T-G, R-G)
Response Time	1-5 Nanoseconds
Capacitance	<50pF
Suppression Modes	Metallic & Longitudinal
Wires Protected	50-wires (25-pairs, pins 1-50)
Termination Type	RJ-21X (Male In / Female Out)



MODULAR
PROTECTOR

SURREGATE
SERIES



Features:

- **Auto-Resetting Technology** - PTC resistors open when a surge occurs, protecting your equipment, but unlike other fuses, the PTCs close again once the surge passes. Less downtime, and less service calls
- **Expandable System Protection** - SurgeGate Series Base Units and Modules can be attached to expand system protection as your system grows
- **Lifetime Product Warranty** - This surge protector shall be free of any defects in design, materials, or workmanship, or ITW Linx will repair or replace the defective product
- **\$50,000 Connected Equipment**
- **AVAYA** approved products: 146H, 408183044

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M4KSU - PREMIER SERIES 4-OUTLET AC SURGEGATE

ORDERING INFORMATION

ITW Linx Part Number	Description
M4KSU	4-outlet AC surge protector, with SurgeGate Plus circuitry and modular mounting capabilities.

* Questions about ordering? Please contact us at **1-800-336-LINX** / Contact an authorized distributor for pricing * (MOQ: 12)

TECHNICAL SPECIFICATIONS

PRODUCT SPECIFICATIONS:

Agency Approval	UL 1363, 1449
LED Indicators	4
Grounding Requirements	Uses Electrical AC Ground
Width / Height / Depth / Weight	4.25" / 9.25" / 1.5" / 2.0 lbs
Product Warranty	Lifetime
Connected Equipment Warranty	Up to \$50,000

AC SURGE PROTECTION:

SurgeGate Plus Circuitry	Yes
Thermal Fusing	Yes
Catastrophic Surge Circuit	Yes
Over/Undervoltage Voltage Protection	Yes
Overvoltage Voltage Shutoff	144V ±11V
Undervoltage Voltage Shutoff	87V ±8V
Single Pulse Energy Dissipation	1650 Joules
Peak Impulse Current	52,000A
EMI/RFI Noise Filtration	50db (99.7%)
Line voltage	120V (50/60Hz)
Initial Clamping Level	200V Peak, 141 Rms
UL 1449 Suppression Rating	L-N 400V, L-G 400V, N-G 400V
Protection Modes	L-N, L-G, N-G
Maximum Current Rating	15A (1800W)
Response Time	1-5 Nanoseconds
Plug Configuration	Right Angle
Number of Outlets / Switched Outlets / Cord Length	4 / 4 / 8'



Features:

- AC protection for telecom systems
- Four switched AC power outlets
- Diagnostic indicator lights (four)
- Expandable protection using SurgeGate Modules
- SurgeGate™ Plus Circuitry
- EMI / RFI noise filtration
- Eight foot power cord with right angle plug
- **Lifetime Product Warranty** - This surge protector shall be free of any defects in design, materials, or workmanship, or ITW Linx will repair or replace the defective product
- **\$50,000 Connected Equipment**
- **AVAYA** approved products:
145J, 700209794

4 OUTLET AC
PROTECTOR

SURGEGATE
SERIES



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This product also for use with these systems:

- NEC
- COMDIAL
- SIEMENS
- PANASONIC
- VODAVI
- MITEL

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Features:

- AC protection for telecom systems
- Eight switched AC power outlets
- Diagnostic indicator lights (four)
- Expandable protection using SurgeGate Modules
- SurgeGate™ Plus Circuitry
- EMI / RFI noise filtration
- Eight foot power cord with right angle plug
- **Lifetime Product Warranty** - This surge protector shall be free of any defects in design, materials, or workmanship, or ITW Linx will repair or replace the defective product
- **\$50,000 Connected Equipment**
- **AVAYA** approved products:
145D, 407676691

M8KSU - PREMIER SERIES 8-OUTLET AC SURGEGATE

ORDERING INFORMATION

ITW Linx Part Number	Description
M8KSU	8-outlet AC surge protector, with SurgeGate Plus circuitry and modular mounting capabilities.

* Questions about ordering? Please contact us at **1-800-336-LINX** / Contact an authorized distributor for pricing * (MOQ: 6)

TECHNICAL SPECIFICATIONS

PRODUCT SPECIFICATIONS:

Agency Approval	UL 1363, 1449
LED Indicators	4
Grounding Requirements	Uses Electrical AC Ground
Width / Height / Depth / Weight	4.25" / 12.75" / 1.5" / 2.4 lbs
Product Warranty	Lifetime
Connected Equipment Warranty	Up to \$50,000

AC SURGE PROTECTION:

SurgeGate Plus Circuitry	Yes
Thermal Fusing	Yes
Catastrophic Surge Circuit	Yes
Over/Undervoltage Voltage Protection	Yes
Overvoltage Voltage Shutoff	144V ±11V
Undervoltage Voltage Shutoff	87V ±8V
Single Pulse Energy Dissipation	1650 Joules
Peak Impulse Current	52,000A
EMI/RFI Noise Filtration	50db (99.7%)
Line voltage	120V (50/60Hz)
Initial Clamping Level	200V Peak, 141 Rms
UL 1449 Suppression Rating	L-N 400V, L-G 400V, N-G 400V
Protection Modes	L-N, L-G, N-G
Maximum Current Rating	15A (1800W)
Response Time	1-5 Nanoseconds
Plug Configuration	Right Angle
Number of Outlets / Switched Outlets / Cord Length	8 / 8 / 8'

8 OUTLET AC
PROTECTOR

SURGEGATE
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1Gb CAT6-LAN - CATEGORY 6 SOLID-STATE BUILDING ENTRANCE PROTECTOR

ORDERING INFORMATION

ITW Linx Part Number	Description
CAT6-LAN	Protects high-performance 4-pair CAT 6 Outside Plant Cables as well as CAT 6 UTP cables for LAN/Data applications (16V). Using 110 punchdown In/Out.

* Questions about ordering? Please contact us at **1-800-336-LINX** / Contact an authorized distributor for pricing * (MOQ: 12)

TECHNICAL SPECIFICATIONS

PRODUCT SPECIFICATIONS:

Agency Approval	UL Primary 497 and Isolated Loop (497B)
Grounding Requirements See Technical Reference page 83-84 for additional grounding tips.
Recommended Grounding Impedance.....	<0.5 Ohm
Width.....	4.25"
Height.....	4.25"
Depth	1.5"
Weight.....	0.42 lbs
Product Warranty	Lifetime
Connected Equipment Warranty	Up to \$50,000

SIGNAL LINE SURGE PROTECTION: (LAN)

Signal Perfect Circuitry	Yes
Fused	Yes
Performance Rating	Cat 6
Clamping Level	16V
Response Time	1-5 Nanoseconds
Capacitance.....	<5pF
Wires Protected	4-pairs
Termination Type	110 Punchdown

Features:

- UL listed for Primary (497) and Isolated Loop (497B) applications
- Exceeds TIA/EIA Standards 568 and 758 for CAT 5e performance
- Solid-state protection for fastest response
- Use between buildings in a campus environment as a building entrance protector or in hostile industrial applications as an isolated loop protector
- **Expandable System Protection** - SurgeGate Modules can be attached to one another to expand system protection as your system grows
- **Lifetime Product Warranty** - This surge protector shall be free of any defects in design, materials, or workmanship, or ITW Linx will repair or replace the defective product
- **\$50,000 Connected Equipment**

SURREGATE
SERIES
CAT6 MODULAR
PROTECTOR



For up-to-date warranty information, please visit our web site at www.itwlinx.com.



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1Gb CAT6-POE - CAT6 PROTECTOR FOR MID-SPAN POWER OVER ETHERNET APPLICATIONS

ORDERING INFORMATION

ITW Linx Part Number	Description
CAT6-POE	Protects high-performance 4-pair CAT 6 Outside Plant Cables as well as CAT6 UTP cables for Power Over Ethernet applications (16V & 68V clamping). Using 110 punchdown In/Out. <i>Can also be used for end-span POE applications where power and data are separate.</i>

* Questions about ordering? Please contact us at **1-800-336-LINX** / Contact an authorized distributor for pricing * (MOQ: 12)

TECHNICAL SPECIFICATIONS

PRODUCT SPECIFICATIONS:

Agency Approval	UL Primary (497) and Isolated Loop (497B)
Grounding Requirements See Technical Reference page 83-84 for additional grounding tips.
Recommended Grounding Impedance.....	<0.5 Ohm
Width / Height / Depth / Weight.....	4.25" / 4.25" / 1.5" / 0.42 lbs
Product Warranty	Lifetime
Connected Equipment Warranty	Up to \$50,000

SIGNAL LINE SURGE PROTECTION: (LAN)

Signal Perfect Circuitry	Yes
Fused	Yes
Performance Rating	Cat 6
Clamping Level	16V-Data (Green & Orange pairs)
.....	68V-Power (Blue & Brown pairs)
Response Time	1-5 Nanoseconds
Capacitance.....	<5pF
Wires Protected	4-pairs
Termination Type	110 Punchdown



Features:

- UL listed for Primary (497) and Isolated Loop (497B) applications
- Exceeds TIA/EIA Standards 568 and 758 for CAT 6 performance
- Solid-state protection for fastest response
- Use between buildings in a campus environment as a building entrance protector or in hostile industrial applications as an isolated loop protector
- Complies with pinouts and the operating voltage of IEEE Std 802.3af
- Can be used in high power POE (POE+) applications
- **Expandable System Protection** - SurgeGate Modules can be attached to one another to expand system protection as your system grows
- **Lifetime Product Warranty** - This surge protector shall be free of any defects in design, materials, or workmanship, or ITW Linx will repair or replace the defective product
- **\$50,000 Connected Equipment**

SURREGATE CAT6 MODULAR PROTECTOR SERIES



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1Gb CAT6-235 - CAT6 SOLID-STATE BUILDING ENTRANCE PROTECTOR

ORDERING INFORMATION

ITW Linx Part Number	Description
CAT6-235	Protects high-performance 4-pair CAT 6 Outside Plant Cables as well as CAT 6 UTP cables for voice or ISDN applications (235V). Using 110 punchdown In/Out.

* Questions about ordering? Please contact us at **1-800-336-LINX** / Contact an authorized distributor for pricing * (MOQ: 12)

TECHNICAL SPECIFICATIONS

PRODUCT SPECIFICATIONS:

Agency Approval	UL Primary (497) and Isolated Loop (497B)
Grounding Requirements	See Technical Reference page 83-84 for additional grounding tips.
Recommended Grounding Impedance	<0.5 Ohm
Width	4.25"
Height	4.25"
Depth	1.5"
Weight	0.42 lbs
Product Warranty	Lifetime
Connected Equipment Warranty	Up to \$50,000

SIGNAL LINE SURGE PROTECTION: (TELCO)

Signal Perfect Circuitry	Yes
Fused	Yes
Performance Rating	Cat 6
Clamping Level	235V
Response Time	1-5 Nanoseconds
Capacitance	<5pF
Suppression Modes	Metallic & Longitudinal
Wires Protected	4-pairs
Termination Type	110 Punchdown

Features:

- UL listed for Primary (497) and Isolated Loop (497B) applications
- Exceeds TIA/EIA Standards 568 and 758 for CAT 5e performance
- Solid-state protection for fastest response
- Use between buildings in a campus environment as a building entrance protector or in hostile industrial applications as an isolated loop protector
- **Expandable System Protection** - SurgeGate Modules can be attached to one another to expand system protection as your system grows
- **Lifetime Product Warranty** - This surge protector shall be free of any defects in design, materials, or workmanship, or ITW Linx will repair or replace the defective product
- **\$50,000 Connected Equipment**

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