



The high-performance, compact MXP120™ Sealed Connection System handles harsh environments and can replace common 1.50mm systems in space-constrained in-line harness applications

Automotive and commercial vehicle makers face tighter space requirements for safety-restraint and harness applications. The MXP120™ Sealed Connector System provides a high-power solution in a compact package size that meets USCAR specifications and can replace existing 1.50mm systems in space constrained harness applications. The use of 1.20mm terminals minimises the connector interface and connector package size versus larger 1.50mm terminals while offering more current carrying capacity and robustness in assembly than is possible with the use of 0.64mm terminal systems.

Connectors with yellow outer-housings have been qualified as per T3-V2-S2 (Temperature up to 125°C / on-engine vibration up to 200m/s²) performance level and are targeted for in-vehicle safety system applications.

Features and Benefits

4.00mm pitch connection system based on 1.20mm terminals	Meets medium-power application requirements up to 13.0A Suitable for most sealed harnessing applications
Single wire seal (SWS) connection system with robust perimeter seal	Withstands high-pressure spray environments
Reduced package size when compared to existing 1.50mm connection systems	Offers significant space-savings for confined design parameters
Accommodates wire gauges up to 1.00mm²	Limits connector pitch to 4.00mm with SWS
Compatible with AK and USCAR interfaces; designed using worldwide AK cavity definition	Confirms global acceptance and marketability
Female receptacles feature long shrouds for 1 by 4 circuit and above (short shrouds for below 4-circuit)	Ensures all circuit sizes and keying options are scoop proof
Female receptacles with Independent Secondary Locking (ISL) Male blade connectors with Primary Lock Reinforcement (PLR)	Ensures efficient terminal positioning and detection of partial installation of terminals
Female receptacles feature integral locking-latch with bridge protection and audible click	Secure mating performance Avoids damage to the latch during packaging and transit

MXP120™ Sealed Connector System

34900 Single-Row Receptacles

34899 Single-Row Blade Connectors



1 by 2-Circuit MXP120™ Sealed Connector System for Safety Applications



1 by 3-Circuit MXP120™ Sealed Connector System for Safety Applications



1 by 6-Circuit MXP120™ Sealed Connector System for Safety Applications

Applications

Sealed applications in automotive and commercial vehicles

Yellow Housings:
Safety Systems - T3-V2-S2 125°C
on-engine vibration

- Supplemental Inflatable Restraints (SIR)
- Safety Restraint Systems (SRS)
- Seat-belt pretensioners
- Airbags - steering wheel / side / curtain



In-vehicle safety systems

Specifications

REFERENCE INFORMATION

Packaging:

Housings – 4-cell bulk pack

Terminals – Reels

Use With:

Receptacle terminals – 1.2 LL SWS
from Tyco and Kostal

Blade terminals – 1.2 CB SWS
from Tyco

Designed In: Millimeters

RoHS: Yes

Halogen Free: Yes

ELECTRICAL

Voltage (max.): 500V DC

Current (max.): 13.0A

Contact Resistance:
8 milliohms max.

Dielectric Withstanding Voltage:
1000V AC min for 60sec.

Insulation Resistance:
100 Megohms min.

PHYSICAL

Housing: PA SPS resin

Operating Temperature:
-40 to +125°C

Flammability:

Per ISO3795 or GMW3191

Burn rate: 100mm/ Mn max.

Material self-extinguishing

Key Product Features



Integral latch provides excellent mating performance and audible click

Bridge protection guarantees no degradation to latching performance

Integral Locking Latch and Bridge Protection



ISL improves terminal servicing, checks correct terminal position and reinforces primary terminal retention

Independent Secondary Locking (ISL)



Scoop-proof design prevents damage to pins during mating

Robust CPA design prevents pre-seating (of itself) in case of rough handling conditions



Enlarged and Robust CPA for Superior Ergonomics

Long shroud for 1 by 6 version protects terminals

Receptacles and Blade Connectors:

Housing Colour Application	Circuits	Polarization	Color Coding	Receptacle Order No.	Mating Male Connector†	
					7.00mm Clip-Slot	11.00mm Clip-Slot
Yellow SIR	2	A	Black	34900-2001	34899-2010	-
		B	Light Grey	34900-2002	34899-2011	-
	3	A	Black	34900-3001	34899-3010	34899-3030
		B	Light Grey	34900-3002	34899-3011	34899-3031
	6	A	Black	34900-6010	34899-6010	34899-6040
		B	Light Grey	34900-6011	34899-6011	34899-6041

† Custom clip-slots available upon request to Product Manager; volume depending

Future Target Applications

Black Housings:

Body electronics connections in wet areas (T3-V2-S2 - 125°C on-engine vibration):

- Exterior lighting
- Turn signals (indicators)
- Door-lock mechanisms

Powertrain (T4-V4-S3 - 155°C high-vibration for severe applications, high-pressure jets)

- Fuel injection
- Emission controls
- Ignition coil



Additional circuit sizes for safety applications and further performance validation for a wider range of applications to follow

Данный компонент на территории Российской Федерации

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Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9