

FIBRE OPTIC CONNECTOR SERIES

MAX17 CONNECTOR

The MAX17 Connectors, featuring expanded beam technology, hermaphroditic connections, and rugged construction for field deployment and hybrid configurability, have been designed for harsh environment applications such as military tactical communications, avionics, offshore systems, outside broadcast, mining, and plants.

The expanded beam technology uses expanded and collimated beams to couple optical fibres without any contact. It could allow for optics to be used in areas that have been quite restrictive due to the presence of damage or contamination at the fibre end.

The hermaphroditic connector design enables fast deployment by daisy-chaining multiple cable segments. MAX17 connectors also enable the transfer of electrical signals or power using a hybrid insert configuration.



FEATURES

- Advanced expanded beam technology
- Rugged field deployable fibre optic connector
- Hermaphroditic interconnection
- 12, 14, and 16 optical channels
- Singlemode (SM) or Multimode (MM)
- Custom configurations available
- Optical/electric hybrid configurations available
- Environmental sealing (IPX8)
- Very high resistance to vibration, shock, environmental effects, dust, and debris
- Easy clean, no special tools
- No adaptors necessary
- Cables assemblies with plugs and bulkheads

APPLICATIONS

- Military Communications
- Avionics, Marine
- Mining, Oil and Gas
- Rail, Transport
- Broadcast
- Telecommunications
- Medical
- Industrial

FIBRE OPTIC CONNECTOR SERIES

Specification

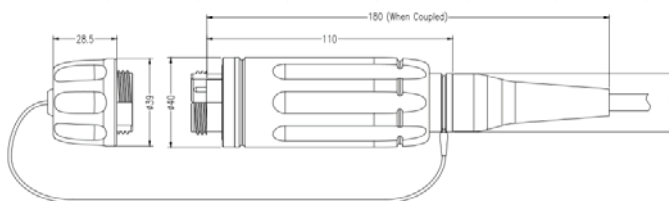
OPTICAL PERFORMANCE		
Insertion loss	Typical 0.8 - 1.8 dB @ 1310, 1550 nm	Singlemode
	Typical 0.5 - 1.0 dB @ 850, 1300 nm	Multimode
Return loss	> 32 dB	Singlemode only
MECHANICAL PERFORMANCE		
Durability	3,000 mating cycles	
Operating temperature	-40 °C to 85 °C	
Storage temperature	-55 °C to 85 °C	
Water immersion	Up to 15 m	
Free fall	500 falls @ 1.2 m	
Vibration	10 - 500 Hz, 3 axis, 0.75 mm, 10 g	
Shock	11 ms, 3 axis, 50 g	

Dimensions

MAX17 Plug connector

MAX17-PSD

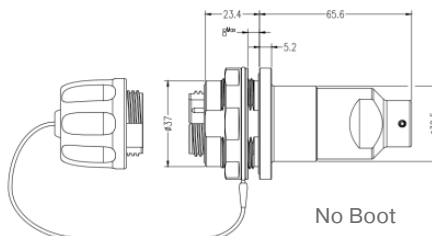
Standard plug with dust cap



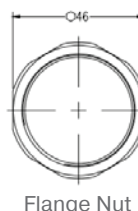
MAX17 Jam nut receptacle

MAX17-RJN

Receptacle, jam nut, no boot, dust cap



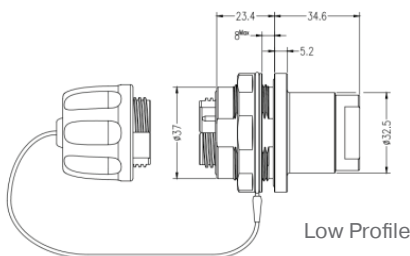
No Boot



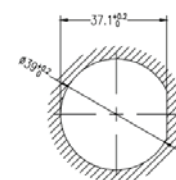
Flange Nut

MAX17-RJL

Receptacle, jam nut, low profile, dust cap



Low Profile



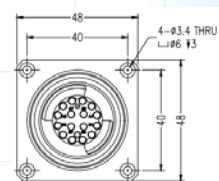
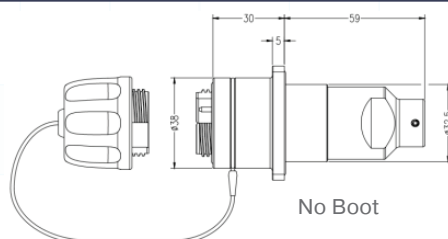
Panel Cut Out
D-Hole Mount Data

FIBRE OPTIC CONNECTOR SERIES

MAX17 Square flange receptacle

MAX17-RQN

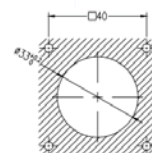
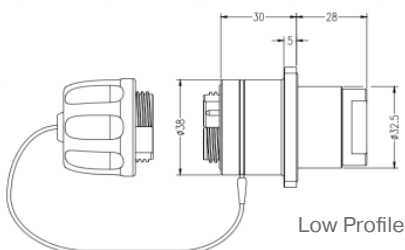
Receptacle, square flange,
no boot, dust cap



Square Flange

MAX17-RQL

Receptacle, square flange,
low profile, dust cap



Panel Cut Out
Square Flange Mount Data

Note. Other configurations, materials and finishes available upon request

MODELS

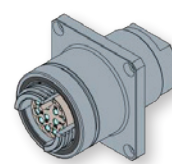
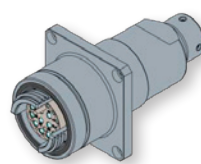
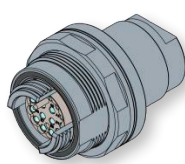
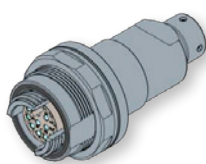
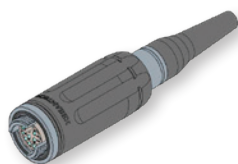
MAX17-PSD
Standard plug

MAX17-RJN
Receptacle, jam nut
no boot

MAX17-RJL
Receptacle, jam nut
low profile

MAX17-RQN
Receptacle, square
flange, no boot

MAX17-RQL
Receptacle, square
flange, low profile



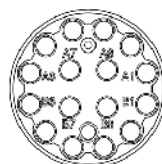
Optical insert arrangements



OC
12CH OPTICAL



OE
14CH OPTICAL

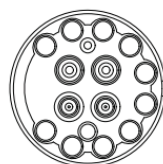


OG
16CH OPTICAL

Hybrid insert arrangements



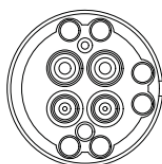
IC
12CH OPTICAL
2CH AWG20



KA
10CH OPTICAL
4CH AWG20



JA
10CH OPTICAL
2CH AWG16



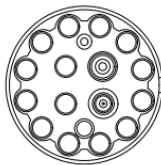
L6
6CH OPTICAL
4CH AWG16



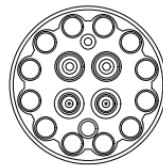
H8
8CH OPTICAL
2CH AWG20
2CH AWG16

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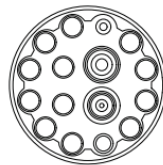
Hybrid insert arrangements



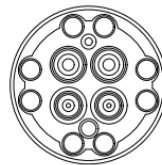
IE
14CH OPTICAL
2CH AWG20



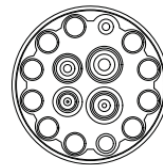
KE
12CH OPTICAL
4CH AWG20



JC
12CH OPTICAL
2CH AWG16



L8
8CH OPTICAL
4CH AWG16

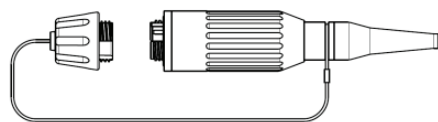


HA
10CH OPTICAL
2CH AWG20
2CH AWG16

Note. Other configurations, materials and finishes available upon request

Ordering Information

Connector only:



Connector A

PSD : Plug with dust cap
RJS : Receptacle, jam nut,
no boot, dust cap
RJL : Receptacle, jam nut,
low profile, dust cap
RQS : Receptacle, square flange,
no boot, dust cap
RQL : Receptacle, square flange,
low profile, dust cap
CXX : Customised connector

Arrangement

OC, OE, OG : 12/14/16 CH OPTICAL
H4, H6, H8, HA : 4/6/8/ 10 CH OPTICAL,
2 CH AWG20, 2 CH AWG16
I6, I8, IA, IC, IE : 6/8/10/12/14 CH OPTICAL, 2 CH AWG20
J6, J8, JA, JC : 6/8/10/12 CH OPTICAL, 2 CH AWG16
K6, K8, KA, KC : 6/8/10/12 CH OPTICAL, 4 CH AWG20
L2, L4, L6, L8 : 2/4/6/8 CH OPTICAL, 4 CH AWG16

MAX17AS-PSD-B-OE-M1-D55_(C03)

Material & finish

B : Aluminum alloy, black hard anodized
X : Others

Fibre type

S1 : SM – 9 µm core Singlemode fibre
M1 : OM1 – 62.5 µm core Multimode fibre
M2 : OM2 – 50 µm core Multimode fibre
M3 : OM3 – 50 µm core Multimode fibre

Cable diameter

S09 : ø 0.9 mm buffered fibre
– RJL, RQL
S20 : ø 2.0 mm jacketed cable
– RJN, RQN
D55 : ø 5.5 mm outdoor cable
– PSD, RJN, RQN
DXX : Others

Note. Other configurations, materials and finishes available upon request



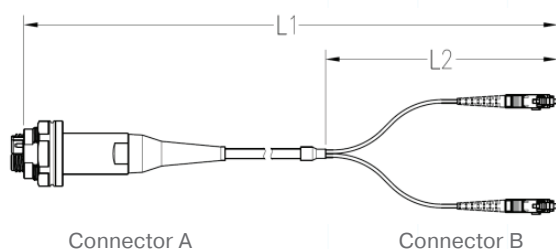
CONTACT: Call: +61 2 8553 0600 Email: sales@fibresystems.com.au www.fibresystems.com.au

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FIBRE OPTIC CONNECTOR SERIES

Ordering Information

Cable assembly:



Connector A

PSD : Plug with dust cap
RJS : Receptacle, jam nut,
no boot, dust cap
RJL : Receptacle, jam nut,
low profile, dust cap
RQS : Receptacle, square
flange, no boot, dust cap
RQL : Receptacle, square
flange, low profile,
dust cap
CXX : Customised connector

Arrangement

OC, OE, OG : 12/14/16 CH OPTICAL
H4, H6, H8, HA : 4/6/8/ 10 CH OPTICAL, 2 CH AWG20, 2 CH AWG16
I6, I8, IA, IC, IE : 6/8/10/12/14 CH OPTICAL, 2 CH AWG20
J6, J8, JA, JC : 6/8/10/12 CH OPTICAL, 2 CH AWG16
K6, K8, KA, KC : 6/8/10/12 CH OPTICAL, 4 CH AWG20
L2, L4, L6, L8 : 2/4/6/8 CH OPTICAL, 4 CH AWG16

Cable length

L1/L2 : Total length (m)/distribution length (cm)
eg. 100 : Total 100 m
050/30 : Total 50m/Distribution 30cm Breakout cable
200/25 : Total 200m/Distribution 25cm Distribution cable

MAX17AS-RJN-B-OE-S1-S20-LC-020/30D_(C03)

Material & finish

B : Aluminum alloy, black hard anodized
X : Others

Fibre type

S1 : SM – 9 µm core Singlemode fibre
M1 : OM1 – 62.5 µm core Multimode fibre
M2 : OM2 – 50 µm core Multimode fibre
M3 : OM3 – 50 µm core Multimode fibre

Connector B

SA : Same as connector A
SC : SC connector
LC : LC connector
ST : ST connector
CX : Customised connector

Cable diameter

S09 : Ø 0.9 mm buffered fibre – RJL, RQL
S20 : Ø 2.0 mm jacketed cable – RJN, RQN
D55 : Ø 5.5 mm outdoor cable – PSD, RJN, RQN
DXX : Others

Note. Other configurations, materials and finishes available upon request



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