



Long Life Reliability
does not cost the earth

Connection Systems



Module 32 & 42

Jumper and Receptacle Configurator

www.lpa-group.com

enquiries@lpa-connect.com

+44 (0)1799 512800



With over 50 years' experience in the design and manufacture of rail inter-car jumpers we offer a reliable and cost effective product solution.

With a highly configurable product, it is quick and simple to specify the build configuration of our Module 32 and 42 jumpers and receptacles.

Using our product configurator, you can identify the preferred components in the build of a Module 32 or 42 including the retaining method, jumper/receptacle type, glanding and planform options. It is also possible to specify material colour, cable and termination options.

Once the preferred configuration and model option has been selected and emailed to us, we can supply the relevant stp files which can be used in the design of your inter-car jumper system.

Module 32 Jumper Configurator

Tick the preferred components for the Module 32 jumper. Based on what has been selected, choose the appropriate jumper model.

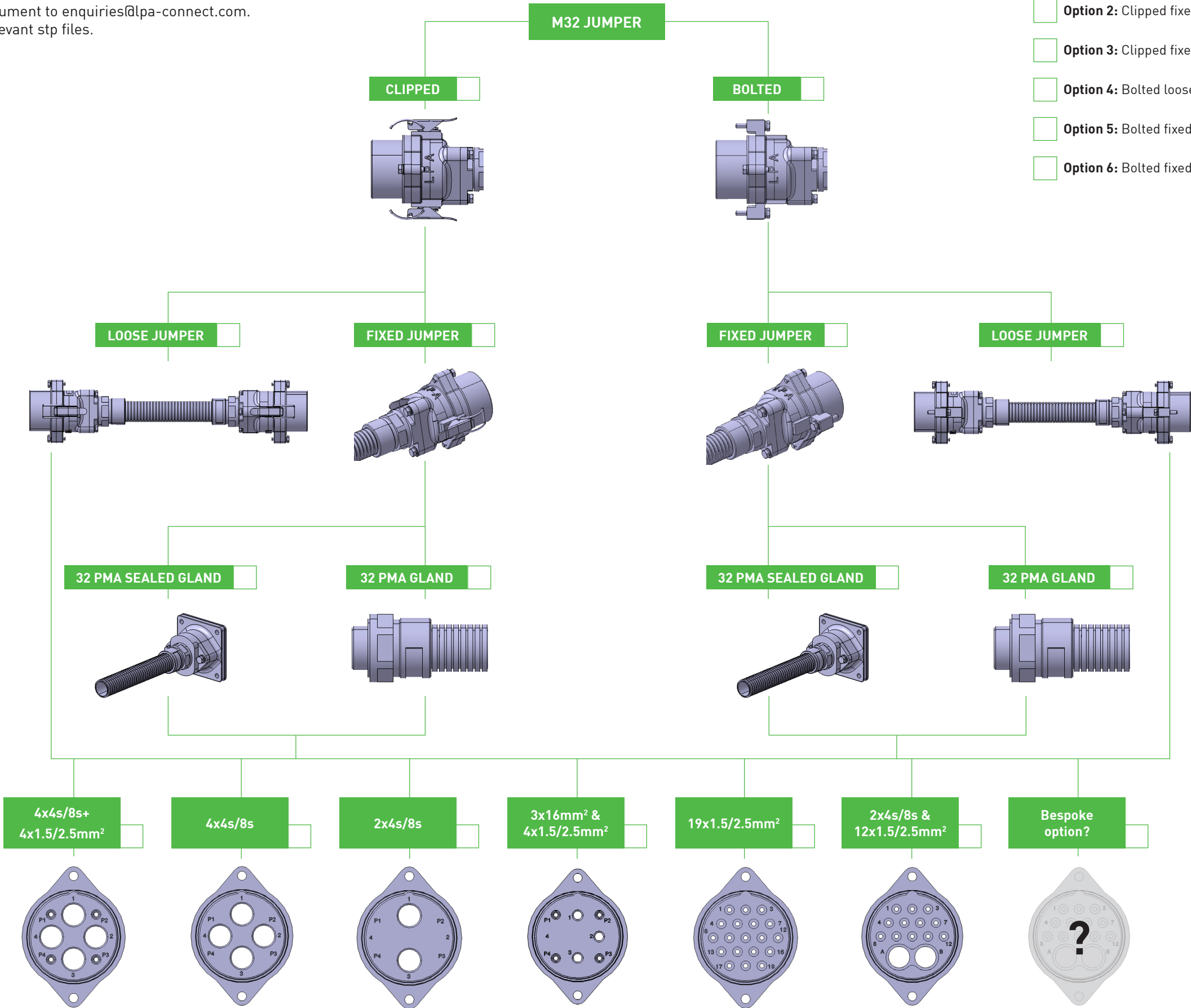
Email the completed document to enquiries@lpa-connect.com. We will then send the relevant stp files.

RETAINING METHOD

JUMPER TYPE

GLANDING TYPE

PLANFORM OPTIONS



Module 32 Jumper Model Selection

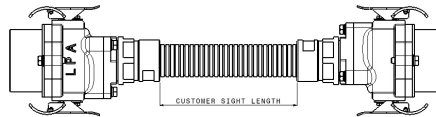
Based on the components selected, choose the appropriate jumper model:

- ☐ **Option 1:** Clipped loose jumper with any planform
- ☐ **Option 2:** Clipped fixed jumper, PMA sealed gland with any planform
- ☐ **Option 3:** Clipped fixed jumper, PMA with any planform
- ☐ **Option 4:** Bolted loose jumper with any planform
- ☐ **Option 5:** Bolted fixed jumper, PMA sealed gland with any planform
- ☐ **Option 6:** Bolted fixed jumper, PMA with any planform

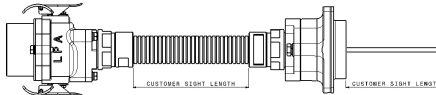
For a complete product solution, please select from the following:

Colour of all components:
☐ **Black** ☐ **Orange**

If loose jumper:
Conduit sight length in metres
LPA can offer both dynamic and static mock up to clarify



If fixed jumper:
Conduit sight length in metres
Cable inside vehicle – Sight length in metres
LPA can offer both dynamic and static mock up to clarify



Cable options: QTY

Cat 5e (Max 4):

Cat 7 (Max 4):

1.5mm² (Max 19):

2.5mm² (Max 19):

16mm² (Max 3):

Cable termination: QTY

D Code (Max 4):

X Code (Max 4):

Ring Tag (Max 19):

Spade Tag (Max 19):

Module 32 Receptacle Configurator

Tick the preferred components for the Module 32 receptacle. Based on what has been selected, choose the appropriate receptacle model.

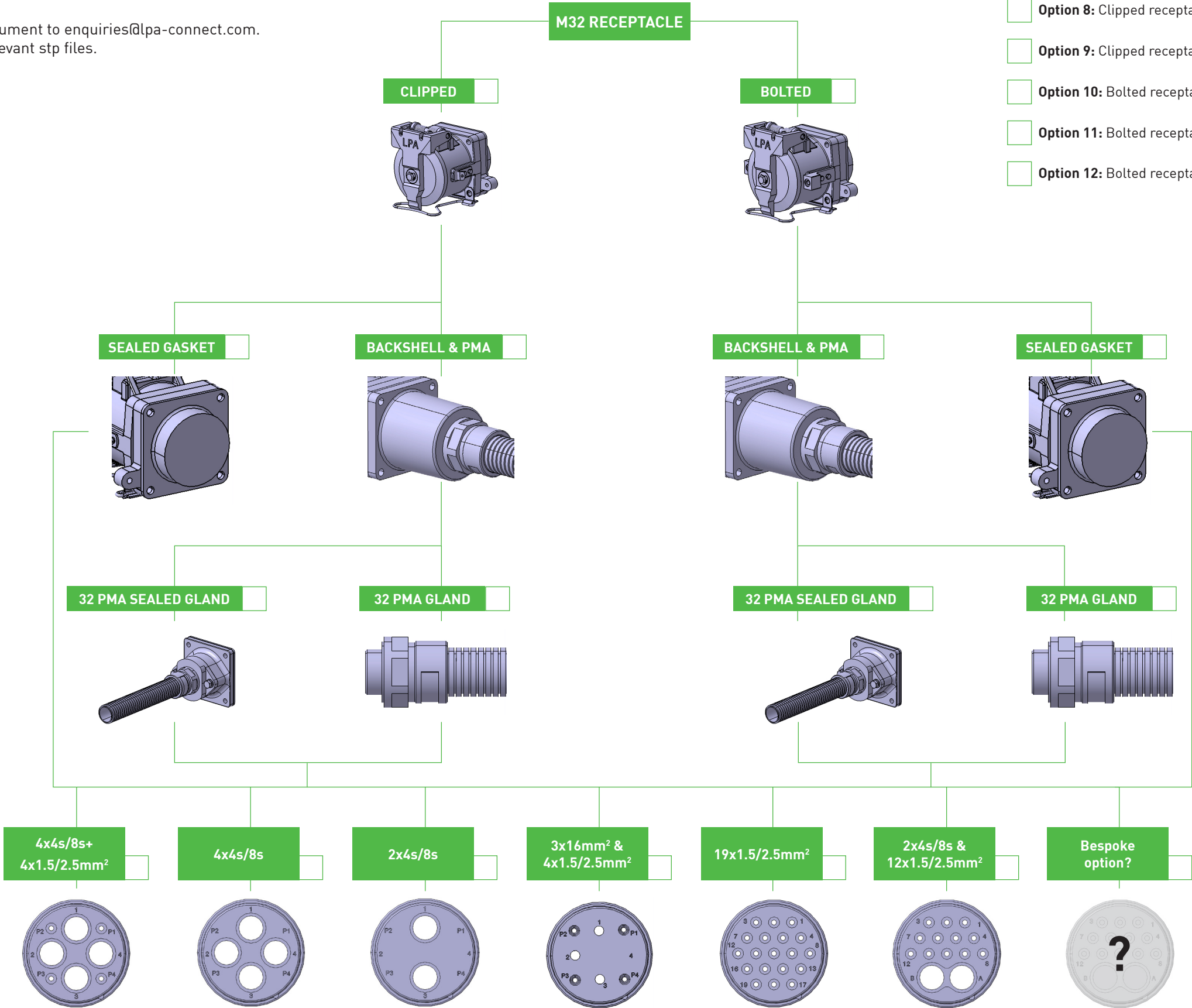
Email the completed document to enquiries@lpa-connect.com. We will then send the relevant stp files.

RETAINING METHOD

RECEPTACLE TYPE

GLANDING TYPE

PLANFORM OPTIONS



Module 32 Receptacle Model Selection

Based on the components selected, choose the appropriate receptacle model:

- ☐ Option 7: Clipped receptacle, sealed gasket with any planform
- ☐ Option 8: Clipped receptacle, backshell and PMA, sealed gland with any planform
- ☐ Option 9: Clipped receptacle, backshell and PMA, PMA gland with any planform
- ☐ Option 10: Bolted receptacle, sealed gasket with any planform
- ☐ Option 11: Bolted receptacle, backshell and PMA, sealed gland with any planform
- ☐ Option 12: Bolted receptacle, backshell and PMA, PMA gland with any planform

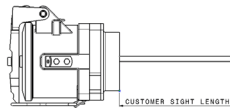
For a complete product solution, please select from the following:

Colour of all components:

- ☐ Black
- ☐ Orange

If sealed gasket:

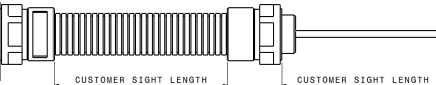
Cable sight length in metres



If Backshell & PMA:

Conduit sight length in metres

Cable inside vehicle – Sight length in metres



Cable options: QTY

Cat 5e (Max 4):

Cat 7 (Max 4):

1.5mm² (Max 19):

2.5mm² (Max 19):

16mm² (Max 3):

Cable termination: QTY

D Code (Max 4):

X Code (Max 4):

Ring Tag (Max 19):

Spade Tag (Max 19):

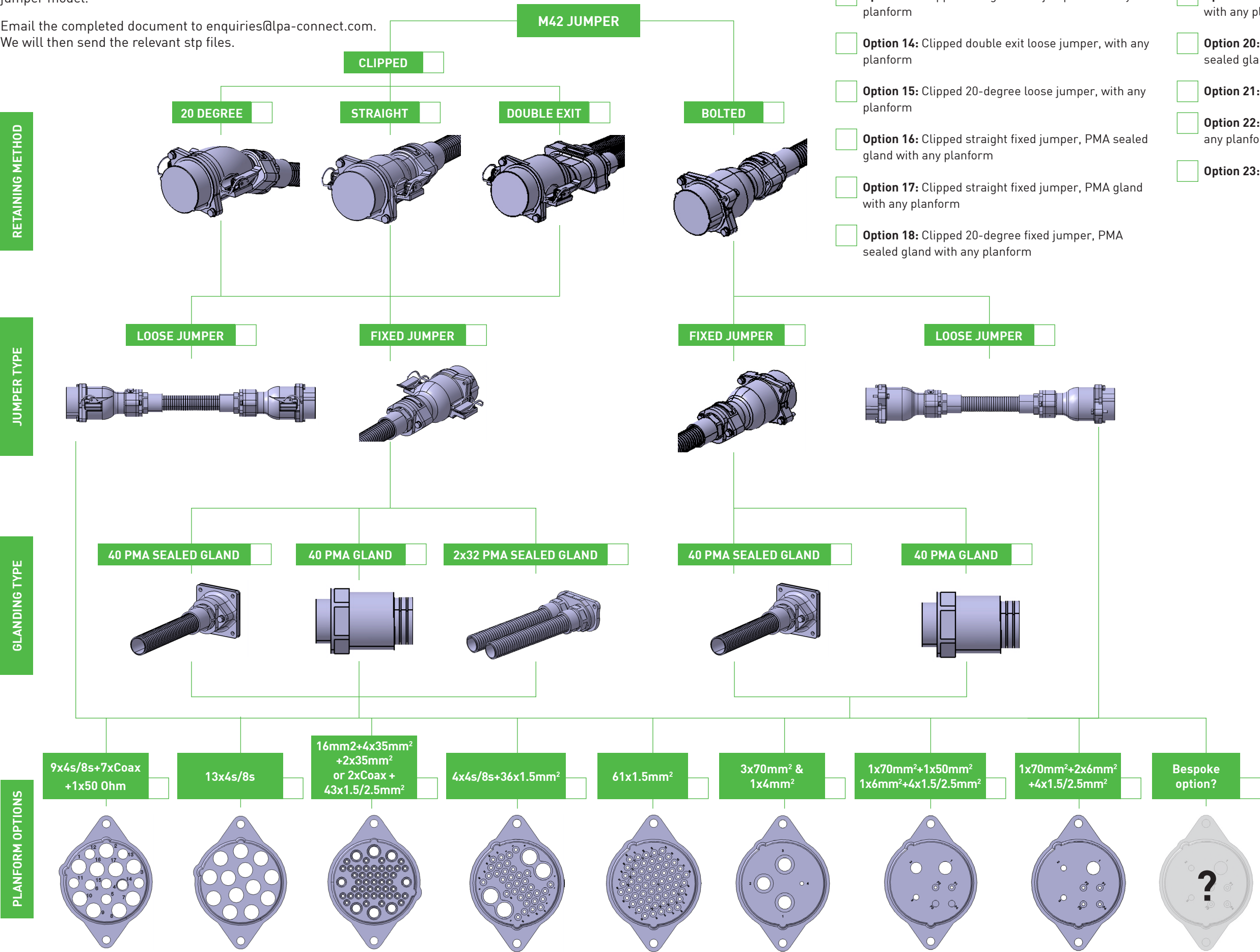
Receptacle mounting:

Fitted to a box ☐ (Sealed gasket type) or mounted to a bracket ☐ (Backshell and PMA type)

Module 42 Jumper Configurator

Tick the preferred components for the Module 42 jumper.
Based on what has been selected, choose the appropriate jumper model.

Email the completed document to enquiries@lpa-connect.com.
We will then send the relevant stp files.



Module 42 Jumper Model Selection

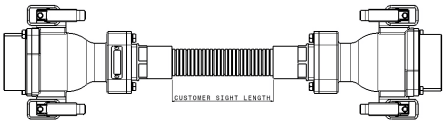
Based on the components selected, choose the appropriate jumper model:

- ☐ **Option 13:** Clipped straight loose jumper. with any planform
- ☐ **Option 14:** Clipped double exit loose jumper, with any planform
- ☐ **Option 15:** Clipped 20-degree loose jumper, with any planform
- ☐ **Option 16:** Clipped straight fixed jumper, PMA sealed gland with any planform
- ☐ **Option 17:** Clipped straight fixed jumper, PMA gland with any planform
- ☐ **Option 18:** Clipped 20-degree fixed jumper, PMA sealed gland with any planform
- ☐ **Option 19:** Clipped 20-degree fixed jumper, PMA gland with any planform
- ☐ **Option 20:** Clipped double exit fixed jumper, 2x PMA sealed gland with any planform
- ☐ **Option 21:** Bolted loose jumper with any planform
- ☐ **Option 22:** Bolted fixed jumper, PMA sealed gland with any planform
- ☐ **Option 23:** Bolted fixed jumper, PMA with any planform

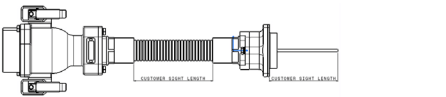
For a complete product solution, please select from the following:

Colour of all components:
☐ Black ☐ Orange

If loose jumper:
Conduit sight length in metres
LPA can offer both dynamic and static mock up to clarify



If fixed jumper:
Conduit site length in metres
Cable inside vehicle – Sight length in metres
LPA can offer both dynamic and static mock up to clarify



Cable options:	QTY	QTY
Cat 5e (Max 13):	6mm² (Max 2):	
Cat 7 (Max 13):	16mm² (Max 3):	
Coax (Max 7):	35mm² (Max 4):	
1.5mm² (Max 61):	70mm² (Max 3):	
2.5mm² (Max 61):	50 Ohm (Max 1):	

Cable termination:	QTY
D Code (Max 13):	
X Code (Max 13):	
Ring Tag (Max 61):	
Spade Tag (Max 61):	

Module 42 Receptacle Configurator

Tick the preferred components for the Module 42 receptacle. Based on what has been selected, choose the appropriate receptacle model.

Email the completed document to enquiries@lpa-connect.com. We will then send the relevant stp files.

RETAINING METHOD

RECEPTACLE TYPE

GLANDING TYPE

PLANFORM OPTIONS

M42 RECEPTACLE

CLIPPED

BOLTED

SEALED GASKET

BACKSHELL & 40 PMA

BACKSHELL & 40 PMA

SEALED GASKET

40 PMA SEALED GLAND

40 PMA GLAND

40 PMA SEALED GLAND

40 PMA GLAND

9x4s/8s+7xCoax
+1x50 Ohm

13x4s/8s

16mm²+4x35mm²
+2x35mm²
or 2xCoax +
43x1.5/2.5mm²

4x4s/8s+36x1.5mm²

61x1.5mm²

3x70mm² &
1x4mm²

1x70mm²+1x50mm²
1x6mm²+4x1.5/2.5mm²

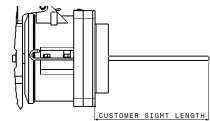
1x70mm²+2x6mm²
+4x1.5/2.5mm²

Bespoke
option?

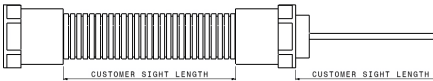
For a complete product solution, please select from the following:

Colour of all components:
☐ Black ☐ Orange

If sealed gasket:
Cable sight length in metres



If Backshell & PMA:
Conduit site length in metres
Cable inside vehicle – Sight length in metres



Cable options:	QTY	QTY
Cat 5e (Max 13):	6mm² (Max 2):	
Cat 7 (Max 13):	16mm² (Max 3):	
Coax (Max 7):	35mm² (Max 4):	
1.5mm² (Max 61):	70mm² (Max 3):	
2.5mm² (Max 61):	50 Ohm (Max 1):	

Cable termination: QTY

D Code (Max 13):

X Code (Max 13):

Ring Tag (Max 61):

Spade Tag (Max 61):

Receptacle mounting:
Fitted to a box (Sealed gasket type) or mounted to a bracket (Backshell and PMA type)

LPA'S RAIL PRODUCT RANGE

LPA Jumper Systems

Incorporating power, control and data capabilities.



Harness Solutions

Bespoke solutions to match vehicle design. Variety of connector and cable options available. Harness length up to 50m.



Earth Studs & Straps

Rail approved earth studs and straps.
M6 to M20 stud sizes available.

Customised straps which are flexible and easily laid in multiple directions.



Shore Supply

Wide range of AC and DC voltages up to 1.5kV AC and 3kV AC.
High current capability up to 800 Amps.
3-Phase circuit protection breaker option.
Mild steel, stainless steel and aluminium enclosures.



Vehicle End, Underframe & Equipment Boxes

Bespoke design to fit the available space in the vehicle.
Available in mild steel, stainless steel and aluminium.
IP66 and IPx7 rated.
Shock and vibration tested to EN 61373.



Please complete the following information:

Full name

Job title

Company

Email

Telephone

Fleet/class/rail project name

Quantity of gaps/train sets/configuration

Timescales/project status

Option number for jumper

Option number for receptacle

Please email the completed document to enquiries@lpa-connect.com and we will send you the relevant stp files.

WHO TO CONTACT AT LPA

Get in touch with the LPA team, offering product & technical advice, sales & customer service.

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Su Drew

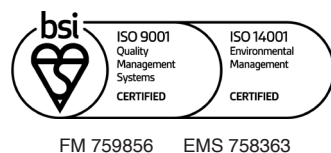
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