

The Pempek OBP Mining PLC I.S. I/O Module provides intrinsically safe (Group I Ex ib) input and output resources in a single, compact unit.

A unique fibre-optic communications interface means that the module and dedicated I.S power supply can be conveniently segregated into its isolated zone.

The fibre-optic link between the module and an Pempek OBP processor module provides real-time control and monitoring of all I/O points.

This solution is ideal for mobile mining equipment where limited installation space must be managed.

Uniquely Keyed Type Connectors to prevent incorrect machine installation.

The module is Dual Pempek OBP Type which complies with AS/NZS 4240 standard.

As per standard, every output includes two switches A&B in series with monitoring feedbacks from both.

Extra safety is achieved by using two potted boards where each includes main and watchdog processors monitoring the correctness of executed main software code.

Module Primary board - A21\_B0L3P Module Secondary board - A19\_A20\_B0MWJ

# **Specifications**

- Module Type: Intrinsically Safe Input / Output with Display
- Supply: 12VDC (+/- 10%) / 20 Watts (Max) from Approved I.S. Power Supply
- Data Communications: CAN interface over Pempek OBP Fibre
- **Operating Temperature:** -20°<sup>c</sup> to +85°<sup>c</sup> all industrial components
- Inputs 1: 24 x I.S. Digital Inputs (12VDC)
- Inputs 2: 16 x I.S. Analog Inputs (4-20 mA)
- Inputs 3: 16 x I.S. Namur Inputs
- Outputs 1: 8 x Proportional Solenoid Outputs 0-350mA
- **Outputs 2:** 1 x Proportional Output 0-900mA (Requires 3 links installed in plug A21)
- Connector 1: Pempek OBP Fibre
- Connector 2: Pempek OBP A21 (12VDS I.S Supply and Solenoid Outputs)
- Connector 3: Pempek OBP A19 (12VDC I.S. Supply and 12 Bit resolution Namur Inputs)
- **Connector 4:** Pempek OBP A20 (Digital Inputs and 12 Bit resolution Analog Inputs)

# Heavy Duty Enclosure

- Electroless Nickel Plated
- Rugged Construction

#### Mass

• 6.5kg (14.3lb)

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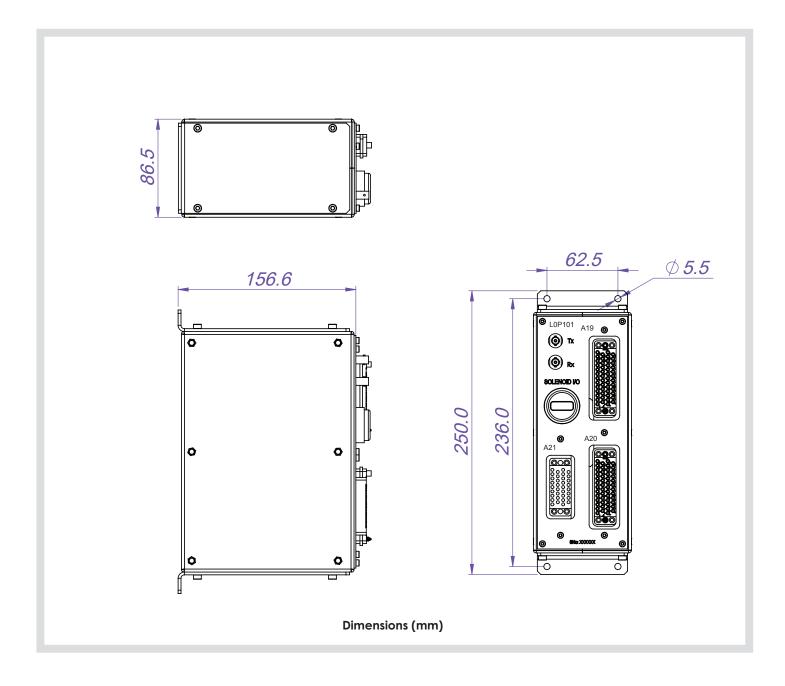
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Datasheet-LOP10101

Mounting options can vary depending on customer requirements.



LOP10101 Pempek OBP Proportional Solenoid Ex ib Intrinsically Safe I/O Analog/Namur Inputs HI-RES 12 Bit Type A



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# **Display Diagnostics**

The integral 4 characters LED Matrix display provides the end-user with some basic diagnostics as to the operation of the module. These messages are as follows:

# **Message Explanation Result**

### ON

Omni Flashing Indicates nominal operation and signifies that CAN communications have been established with a host. Normal Operation Permitted

# CAN

This indicates CAN Communication has not been established or has been lost. Outputs Disabled

### FEBK

This indicates that internal is NOT congruent with requested outputs. This typically occurs when output has been requested but has failed to operate indicating a supply failure or wiring error. Outputs Disabled

# SHRT

This indicates that a short-circuit condition has been detected as a requested output. This short-circuit could be external (most probable) or internal Outputs Disabled

#### OPEN

This indicates that the requested output is not drawing sufficient current to operate as expected indicating that the solenoid coil is an open circuit. Outputs Disabled

#### LOAD

This indicates that the requested output is not drawing current as requested when commanded to operate proportionally. Outputs Disable



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# L0P10101 Pempek OBP Proportional Solenoid Ex ib Intrinsically Safe I/O Analog/Namur Inputs HI-RES 12 Bit Type A

# **CONNECTOR A19**

Number	Unit / PCB	LOP10101
	GMCT50F Female Board Mount	Name
	PIN	
1	A	SUPPLY-PROX-SW-1
2	В	ANALOG-1 High Resolution 12 Bit
3	С	SUPPLY-PROX-SW-2
4	D	ANALOG-2 High Resolution 12 Bit
5	E	SUPPLY-PROX-SW-3
6	F	ANALOG-3 High Resolution 12 Bit
7	Н	
8	J	
9	Κ	SUPPLY-PROX-SW-4
10	L	ANALOG-4 High Resolution 12 Bit
11	Μ	
12	Ν	
13	Р	SUPPLY-PROX-SW-5
14	R	ANALOG-5 High Resolution 12 Bit
15	S	-
16	Т	
17	U	SUPPLY-PROX-SW-6
18	V	ANALOG-6 High Resolution 12 Bit
19	W	SUPPLY-PROX-SW-7
20	Х	ANALOG-7 High Resolution 12 Bit
21	Y	SUPPLY-PROX-SW-8
22	Z	ANALOG-8 High Resolution 12 Bit
23	a	C C
24	b	
25	С	SUPPLY-PROX-SW-9
26	d	ANALOG-9 High Resolution 12 Bit
27	е	C C
28	f	
29	h	SUPPLY-PROX-SW-10
30	i	ANALOG-10 High Resolution 12 Bit
31	k	Ŭ
32	m	
33	n	SUPPLY-PROX-SW-11
34	р	ANALOG-11 High Resolution 12 Bit
35	r	SUPPLY-PROX-SW-12
36	S	ANALOG-12 High Resolution 12 Bit
37	t	SUPPLY-PROX-SW-13
38	U	ANALOG-13 High Resolution 12 Bit
39	V	C C
40	W	
41	х	SUPPLY-PROX-SW-14
42	У	ANALOG-14 High Resolution 12 Bit
43	Z	Č.
44	AA	
45	BB	SUPPLY-PROX-SW-15
46	CC	ANALOG-15 High Resolution 12 Bit
47	DD	SUPPLY-PROX-SW-16
48	EE	ANALOG-16 High Resolution 12 Bit
49	FF	OVIS
50	HH	12VIS





Image depict coding pins required

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LOP10101 Pempek OBP Proportional Solenoid Ex ib Intrinsically Safe I/O Analog/Namur Inputs HI-RES 12 Bit Type A

### **CONNECTOR A20**

CONNECTOR	A20	
Number	Unit / PCB GMST50F Female Board Mount PIN	LOP10101 Name
1		
1 2	A	INP1
	B	INP2
3	С	INP3
4	D	INP4
5 6	E F	INP5 INP6
7	H	INP7
8	J	INF7 INP8
9	K	INP9
10	L	INP10
	M	INP11
11 12	N	INFTT INP12
12	P	INFTZ INP13
14	R	INP14
14	S	INF14 INP15
	S T	INP16
16		
17	U	INP17
18	V W	INP18
19		INP19
20	X	INP20
21	Y	INP21
22	Z	INP22
23	a	INP23
24	b	INP24
25	С	
26	d	MODULE SELECT-4
27	e	
28	f	MODULE SELECT-3
29	h	
30	1	MODULE SELECT-2
31	k	
32	m	MODULE SELECT-1
33	n	AN17 High Resolution 12 Bit
34	р	AN18 High Resolution 12 Bit
35	r	AN19 High Resolution 12 Bit
36	S	AN20 High Resolution 12 Bit
37	t	AN21 High Resolution 12 Bit
38	U	AN22 High Resolution 12 Bit
39	V	AN23 High Resolution 12 Bit
40	W	AN24 High Resolution 12 Bit
41	Х	AN25 High Resolution 12 Bit
42	У	AN26 High Resolution 12 Bit
43	Z	AN27 High Resolution 12 Bit
44	AA	AN28 High Resolution 12 Bit
45	BB	AN29 High Resolution 12 Bit
46	CC	AN30 High Resolution 12 Bit
47	DD	AN31 High Resolution 12 Bit
48	EE	AN32 High Resolution 12 Bit
49	FF	
50	HH	OVIS





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# LOP10101 Pempek OBP Proportional Solenoid Ex ib Intrinsically Safe I/O Analog/Namur Inputs HI-RES 12 Bit Type A

# CONNECTOR A21 - Proportional Solenoids 8x 0-350mA variant

VMC1-34F Female Board Mount PIN    Name      1    A      2    B    PROP-SOL-1      3    C      4    D    PROP-SOL-1 Return OVIS      5    E      6    F    PROP-SOL-2 Return OVIS      7    H      8    J    PROP-SOL-2 Return OVIS      9    K      10    L    PROP-SOL-3 Return OVIS      9    K      11    M    MODULE SELECT-1      12    N    PROP-SOL-3 Return OVIS      13    P    I      14    R    PROP-SOL-4 Return OVIS      15    S    MODULE SELECT-2      16    T    PROP-SOL-5 Return OVIS      17    U    I      18    V    PROP-SOL-5 Return OVIS      21    Y    I      22    Z    PROP-SOL-6      23    AA    MODULE SELECT-4      24    BB    PROP-SOL-6 Return OVIS      25    CC	Number	Unit / PCB	L0P10101
PIN      1    A      2    B    PROP-SOL-1      3    C      4    D    PROP-SOL-1 Return 0VIS      5    E      6    F    PROP-SOL-2      7    H      8    J    PROP-SOL-2 Return 0VIS      9    K      10    L    PROP-SOL-3      11    M    MODULE SELECT-1      12    N    PROP-SOL-3 Return 0VIS      13    P		VMCT-34F Female	Namo
N    PROP-SOL-1      3    C      4    D    PROP-SOL-1 Return 0VIS      5    E      6    F    PROP-SOL-2      7    H			Nullie
3    C      4    D    PROP-SOL-1 Return 0VIS      5    E      6    F    PROP-SOL-2      7    H	1	A	
4    D    PROP-SOL-1 Return 0VIS      5    E      6    F    PROP-SOL-2      7    H	2	В	PROP-SOL-1
5    E      6    F    PROP-SOL-2      7    H      8    J    PROP-SOL-2 Return 0VIS      9    K      10    L    PROP-SOL-3      11    M    MODULE SELECT-1      12    N    PROP-SOL-3 Return 0VIS      13    P      14    R    PROP-SOL-4      15    S    MODULE SELECT-2      16    T    PROP-SOL-4 Return 0VIS      17    U	3	С	
6    F    PROP-SOL-2      7    H      8    J    PROP-SOL-2 Return 0VIS      9    K      10    L    PROP-SOL-3 Return 0VIS      11    M    MODULE SELECT-1      12    N    PROP-SOL-3 Return 0VIS      13    P      14    R    PROP-SOL-4      15    S    MODULE SELECT-2      16    T    PROP-SOL-4 Return 0VIS      17    U	4	D	PROP-SOL-1 Return OVIS
7    H      8    J    PROP-SOL-2 Return 0VIS      9    K      10    L    PROP-SOL-3      11    M    MODULE SELECT-1      12    N    PROP-SOL-3 Return 0VIS      13    P      14    R    PROP-SOL-4      15    S    MODULE SELECT-2      16    T    PROP-SOL-4 Return 0VIS      17    U    U      18    V    PROP-SOL-5      19    W    MODULE SELECT-3      20    X    PROP-SOL-5 Return 0VIS      21    Y	5	E	
8    J    PROP-SOL-2 Return 0VIS      9    K      10    L    PROP-SOL-3      11    M    MODULE SELECT-1      12    N    PROP-SOL-3 Return 0VIS      13    P    Identification 0VIS      14    R    PROP-SOL-4      15    S    MODULE SELECT-2      16    T    PROP-SOL-4 Return 0VIS      17    U    Identification 0VIS      18    V    PROP-SOL-5      19    W    MODULE SELECT-3      20    X    PROP-SOL-5 Return 0VIS      21    Y    Identification 0VIS      22    Z    PROP-SOL-6 Return 0VIS      23    AA    MODULE SELECT-4      24    BB    PROP-SOL-6 Return 0VIS      25    CC    Identification 0VIS      25    CC    Identification 0VIS      26    DD    PROP-SOL-7      27    EE    Identification 0VIS      28    FF    PROP-SOL-7 Return 0VIS	6	F	PROP-SOL-2
9    K      10    L    PROP-SOL-3      11    M    MODULE SELECT-1      12    N    PROP-SOL-3 Return OVIS      13    P      14    R    PROP-SOL-4 Return OVIS      15    S    MODULE SELECT-2      16    T    PROP-SOL-4 Return OVIS      17    U    V      18    V    PROP-SOL-5      19    W    MODULE SELECT-3      20    X    PROP-SOL-5 Return OVIS      21    Y    V      22    Z    PROP-SOL-5 Return OVIS      23    AA    MODULE SELECT-4      24    BB    PROP-SOL-6 Return OVIS      25    CC    V      26    DD    PROP-SOL-7 Return OVIS      25    CC    V      26    FF    PROP-SOL-7 Return OVIS      27    EE    V      28    FF    PROP-SOL-7 Return OVIS	7	Н	
10    L    PROP-SOL-3      11    M    MODULE SELECT-1      12    N    PROP-SOL-3 Return OVIS      13    P      14    R    PROP-SOL-4      15    S    MODULE SELECT-2      16    T    PROP-SOL-4 Return OVIS      17    U    V      18    V    PROP-SOL-5      19    W    MODULE SELECT-3      20    X    PROP-SOL-5 Return OVIS      21    Y    V      22    Z    PROP-SOL-6      23    AA    MODULE SELECT-4      24    BB    PROP-SOL-6 Return OVIS      25    CC    V      26    DD    PROP-SOL-7 Return OVIS      25    CC    V      26    FF    PROP-SOL-7 Return OVIS      27    EE    V      28    FF    PROP-SOL-7 Return OVIS      29    HH    V	8	J	PROP-SOL-2 Return 0VIS
Interview    MODULE SELECT-1      12    N    PROP-SOL-3 Return OVIS      13    P      14    R    PROP-SOL-4      15    S    MODULE SELECT-2      16    T    PROP-SOL-4 Return OVIS      17    U    Interview      18    V    PROP-SOL-5      19    W    MODULE SELECT-3      20    X    PROP-SOL-5 Return OVIS      21    Y    Interview      22    Z    PROP-SOL-5 Return OVIS      21    Y    Interview      22    Z    PROP-SOL-6      23    AA    MODULE SELECT-4      24    BB    PROP-SOL-6 Return OVIS      25    CC    Interview      26    DD    PROP-SOL-7      27    EE    Interview      28    FF    PROP-SOL-7 Return OVIS      29    IH    Interview	9	K	
12    N    PROP-SOL-3 Return 0VIS      13    P      14    R    PROP-SOL-4      15    S    MODULE SELECT-2      16    T    PROP-SOL-4 Return 0VIS      17    U    U      18    V    PROP-SOL-5      19    W    MODULE SELECT-3      20    X    PROP-SOL-5 Return 0VIS      21    Y    PROP-SOL-5 Return 0VIS      22    Z    PROP-SOL-6 Return 0VIS      23    AA    MODULE SELECT-4      24    BB    PROP-SOL-6 Return 0VIS      25    CC	10	L	PROP-SOL-3
13  P    14  R  PROP-SOL-4    15  S  MODULE SELECT-2    16  T  PROP-SOL-4 Refurn OVIS    17  U  I    18  V  PROP-SOL-5    19  W  MODULE SELECT-3    20  X  PROP-SOL-5 Refurn OVIS    21  Y  I    22  Z  PROP-SOL-6 Refurn OVIS    23  AA  MODULE SELECT-4    24  BB  PROP-SOL-6 Refurn OVIS    25  CC  I    26  DD  PROP-SOL-7 Refurn OVIS    27  EE  I    28  FF  PROP-SOL-7 Refurn OVIS    29  HH  I	11	Μ	MODULE SELECT-1
14    R    PROP-SOL-4      15    S    MODULE SELECT-2      16    T    PROP-SOL-4 Return 0VIS      17    U    Item 1000000000000000000000000000000000000	12	Ν	PROP-SOL-3 Return OVIS
15  S  MODULE SELECT-2    16  T  PROP-SOL-4 Return 0VIS    17  U    18  V  PROP-SOL-5    19  W  MODULE SELECT-3    20  X  PROP-SOL-5 Return 0VIS    21  Y    22  Z  PROP-SOL-5 Return 0VIS    23  AA  MODULE SELECT-4    24  BB  PROP-SOL-6 Return 0VIS    25  CC  2    26  DD  PROP-SOL-7 Return 0VIS    25  EE  2    26  FF  PROP-SOL-7 Return 0VIS    27  EE  2    28  FF  PROP-SOL-7 Return 0VIS    29  HH	13	Р	
16    T    PROP-SOL-4 Return 0VIS      17    U      18    V    PROP-SOL-5      19    W    MODULE SELECT-3      20    X    PROP-SOL-5 Return 0VIS      21    Y    22      22    Z    PROP-SOL-6      23    AA    MODULE SELECT-4      24    BB    PROP-SOL-6 Return 0VIS      25    CC    25      26    DD    PROP-SOL-7      27    EE    24      28    FF    PROP-SOL-7 Return 0VIS      29    HH    25	14	R	PROP-SOL-4
17U18VPROP-SOL-519WMODULE SELECT-320XPROP-SOL-5 Return 0VIS21Y2222ZPROP-SOL-623AAMODULE SELECT-424BBPROP-SOL-6 Return 0VIS25CC2626DDPROP-SOL-727EE28FFPROP-SOL-7 Return 0VIS29HH	15	S	MODULE SELECT-2
18    V    PROP-SOL-5      19    W    MODULE SELECT-3      20    X    PROP-SOL-5 Return 0VIS      21    Y      22    Z    PROP-SOL-6      23    AA    MODULE SELECT-4      24    BB    PROP-SOL-6 Return 0VIS      25    CC	16	Т	PROP-SOL-4 Return 0VIS
19WMODULE SELECT-320XPROP-SOL-5 Return 0VIS21Y22ZPROP-SOL-623AAMODULE SELECT-424BBPROP-SOL-6 Return 0VIS25CC26DDPROP-SOL-727EE28FFPROP-SOL-7 Return 0VIS29HH	17	U	
20XPROP-SOL-5 Return 0VIS21Y22ZPROP-SOL-623AAMODULE SELECT-424BBPROP-SOL-6 Return 0VIS25CC26DDPROP-SOL-727EE28FFPROP-SOL-7 Return 0VIS29HH	18	V	PROP-SOL-5
21Y22ZPROP-SOL-623AAMODULE SELECT-424BBPROP-SOL-6 Return OVIS25CC2626DDPROP-SOL-727EE28FFPROP-SOL-7 Return OVIS29HH	19	W	MODULE SELECT-3
22ZPROP-SOL-623AAMODULE SELECT-424BBPROP-SOL-6 Return 0VIS25CCCC26DDPROP-SOL-727EECC28FFPROP-SOL-7 Return 0VIS29HHCC	20	Х	PROP-SOL-5 Return 0VIS
23AAMODULE SELECT-424BBPROP-SOL-6 Return 0VIS25CC26DDPROP-SOL-727EE28FFPROP-SOL-7 Return 0VIS29HH	21	Y	
24    BB    PROP-SOL-6 Return 0VIS      25    CC      26    DD    PROP-SOL-7      27    EE      28    FF    PROP-SOL-7 Return 0VIS      29    HH	22	Z	PROP-SOL-6
25    CC      26    DD    PROP-SOL-7      27    EE      28    FF    PROP-SOL-7 Return 0VIS      29    HH	23	AA	MODULE SELECT-4
26DDPROP-SOL-727EE28FFPROP-SOL-7 Return 0VIS29HH	24	BB	PROP-SOL-6 Return OVIS
27    EE      28    FF    PROP-SOL-7 Return 0VIS      29    HH	25	CC	
28FFPROP-SOL-7 Return 0VIS29HH	26	DD	PROP-SOL-7
29 HH	27	EE	
	28	FF	PROP-SOL-7 Return 0VIS
	29	HH	
JJ I KOL-SOL- 0	30	JJ	PROP-SOL- 8
31 KK	31	KK	
32 LL PROP-SOL-8 Return 0VIS	32	LL	PROP-SOL-8 Return OVIS
33 MM OVIS Supply	33	MM	OVIS Supply
34 NN 12VIS Supply	34	NN	12VIS Supply





Image depict coding pins required

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L0P10101 Pempek OBP Proportional Solenoid Ex ib Intrinsically Safe I/O Analog/Namur Inputs HI-RES 12 Bit Type A

# CONNECTOR A21 Proportional Solenoid 0-900mA variant

Number	Unit / PCB	LOP10101
	VMCT-34F Female Board Mount PIN	Name
1	А	A-C Link1 in A21 Plug
2	В	PROP-SOL-1
3	С	A-C Link1 in A21 Plug
4	D	PROP-SOL-1 Return OVIS
5	E	E-H Link2 in A21 Plug
6	F	
7	Н	E-H Link2 in A21 Plug
8	J	
9	К	K-P Link3 in A21 Plug
10	L	
11	Μ	MODULE SELECT-1
12	Ν	
13	Р	K-P Link3 in A21 Plug
14	R	
15	S	MODULE SELECT-2
16	Т	
17	U	
18	V	
19	W	MODULE SELECT-3
20	Х	
21	Y	
22	Z	
23	AA	MODULE SELECT-4
24	BB	
25	CC	
26	DD	
27	EE	
28	FF	
29	HH	
30	JJ	
31	КК	
32	LL	
33	MM	OVIS Supply
34	NN	12VIS Supply



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L0P10101 Pempek OBP Proportional Solenoid Ex ib Intrinsically Safe I/O Analog/Namur Inputs HI-RES 12 Bit Type A

# Fibre Optic Patch Cables

Part Number	Description
H0LW0401	Fibre Optic Patch ST-ST Multi-Mode
H0M10101	Connector Assembly Fibre 8 way 7m
H0M10201	Connector Assembly Fibre 8 way 10m
H0M10301	Connector Assembly Fibre 8 way 1m
H0M10401	Connector Assembly Fibre 8 way 4m
H0M10801	Connector Assembly Fibre 8 way 8m
H0M10901	Connector Assembly Fibre 8 way 11m
H0M11001	Fibre Optic Patch Assembly 8 way 3m
H0M11201	Connector Assembly Fibre 8 way 12.5m

# **Specifications**

- **Product Type:** Pre-manufactured cable assembly
- Construction: Flbre Optic with ST terminations
- **Connector 1 :** Fibre Optic Tx
- Connector 2: Fibre-optic Rx
- Pin Type: ST Fibre Plugs
- Conductor Type: Multi-mode Fibre-optic
- Insulation Rating: N/A
- Temperature Rating: -40°C to 85°C

# **Connector Assembly**

Part Number	Description
H0LW0201	Connector Assembly A19 2.2m
H0LW0301	Connector Assembly A20 2.2m
H0LW0901	Connector Assembly A20 5m
H0LW0902	Connector Assembly A20 1.5m
H0LW0903	Connector Assembly A20 Fully Populated 1.5m
H0LZ0501	Connector Assembly A21 2.2m
H0LZ0502	Connector Assembly A21 1.5m
H0LZ0503	Connector Assembly A21 1.5m Fully Populated



- Product Type: Pre-manufactured cable assembly
- Construction: Connector with flying leads (pigtail)
- Pin Type: Male (Gold-plated)
- Conductor Type: PVDF Tinned Stranded Wire
- Insulation Rating: 600 volts
- Temperature Rating: -65 to 105 C
- Recommended Tools: PVDF / Teflon Insulation Stripping Tool

# Cable options can vary depending on customer requirements.

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Image above Fibre Optic Patch ST-ST Multi-Mode

