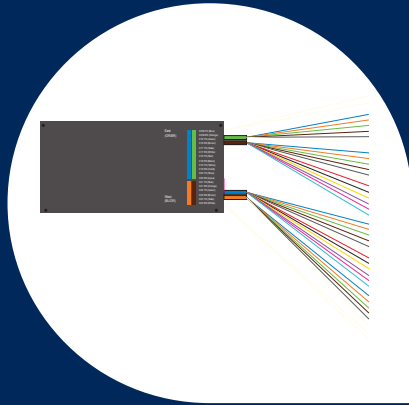


PASSIVES DATA SHEET



8 Channel Dual Fiber OADM DWDM CHs. 16-23, 25-32, 34-41, 43-50, 52-59

Champion ONE's DWDM passive networking products for outside plant applications provide a cost-effective, high-reliability solution to fiber capacity challenges.

Our OSP passives come in standard and patent-pending IP68-compliant submersible cassettes made of aluminum alloy.

Technical Specifications

WAVELENGTH INFORMATION

DWDM channel wavelengths: ITU ch. 16-23, 25-32, 34-41, 43-50, or 52-59; 100GHz spacing
Passband width: ITU \pm 0.11nm

FORM FACTOR AND CONNECTOR TYPE

Large OSP cassette (IP68-compliant submersible options available)
LC/UPC connector (MON only)

DIMENSIONS (LXWXH)

140 x 70 x 8mm
2m or 3m fiber pigtails

Parameter	Value
COM > Channel Insertion Loss (dB)	\leq 3.4
Channel > COM Insertion Loss (dB)	\leq 3.4
COM > COM Insertion Loss (dB)	\leq 1.5
MON Port Insertion Loss (mux/demux, dB)	\leq 22.4 / 19.0 (East) \leq 22.4 / 19.0 (West)
Passband Ripple (dB)	\leq 0.5
Adjacent Channel Isolation (dB)	\geq 30
Non-Adjacent Channel Isolation (dB)	\geq 40

TEMPERATURE RANGE

-40° C to 85° C (operating and storage)

WARRANTY

All feature a limited 5-year warranty

COMPLIANCES

RoHS compliant
Telcordia GR-1209, GR-1221

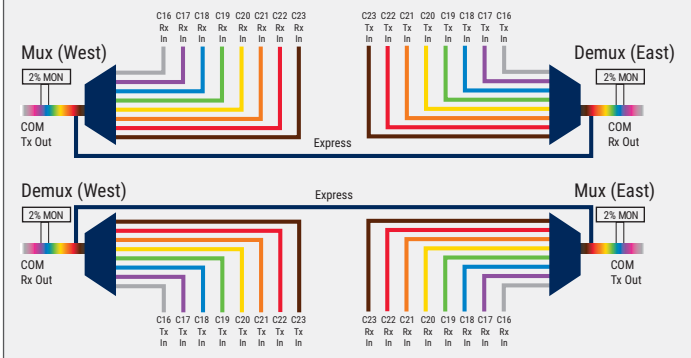
Parameter	Value
Polarization Dependent Loss (dB)	\leq 0.2
Directivity (dB)	\geq 50
Return Loss (dB)	\geq 45
Polarization Mode Dispersion (ps)	\leq 0.2
Fiber Type	900 μ m (MON only); colored bare fibers
Max Power Handling (mW)	300

Ordering Information

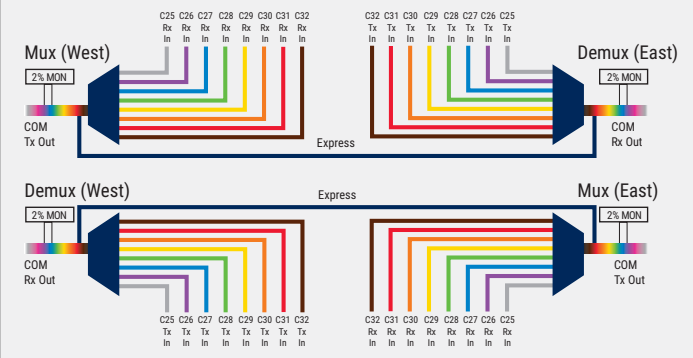
C1 Part Number	Description
SUBMERSIBLE OSP CASSETTE	
ZS-DW1-E18MBPE-8-1-16-0-2-S	DWDM 100GHz spacing, OADM, TFF Thin Film Filter Submersible, 8 Channel, No Connector, Channel 16 Start, Single module, OSP 140x70x8mm, 2m pigtail, Skip 0, MON 2% M/D
ZS-DW1-E18MBPE-8-1-25-0-2-S	DWDM 100GHz spacing, OADM, TFF Thin Film Filter Submersible, 8 Channel, No Connector, Channel 25 Start, Single module, OSP 140x70x8mm, 2m pigtail, Skip 0, MON 2% M/D
ZS-DW1-E18MBPE-8-1-34-0-2-S	DWDM 100GHz spacing, OADM, TFF Thin Film Filter Submersible, 8 Channel, No Connector, Channel 34 Start, Single module, OSP 140x70x8mm, 2m pigtail, Skip 0, MON 2% M/D
ZS-DW1-E18MBPE-8-1-43-0-2-S	DWDM 100GHz spacing, OADM, TFF Thin Film Filter Submersible, 8 Channel, No Connector, Channel 43 Start, Single module, OSP 140x70x8mm, 2m pigtail, Skip 0, MON 2% M/D
ZS-DW1-E18MBPE-8-1-52-0-2-S	DWDM 100GHz spacing, OADM, TFF Thin Film Filter Submersible, 8 Channel, No Connector, Channel 52 Start, Single module, OSP 140x70x8mm, 2m pigtail, Skip 0, MON 2% M/D

Network Diagrams

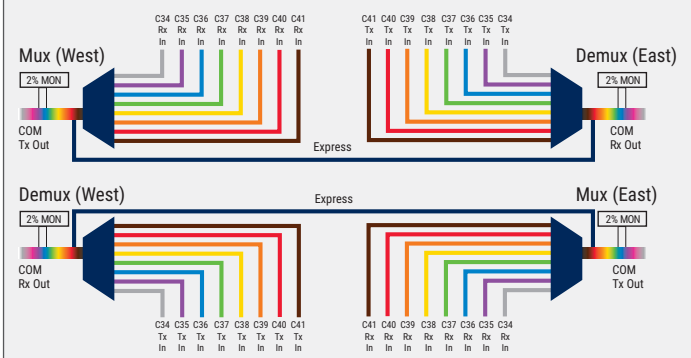
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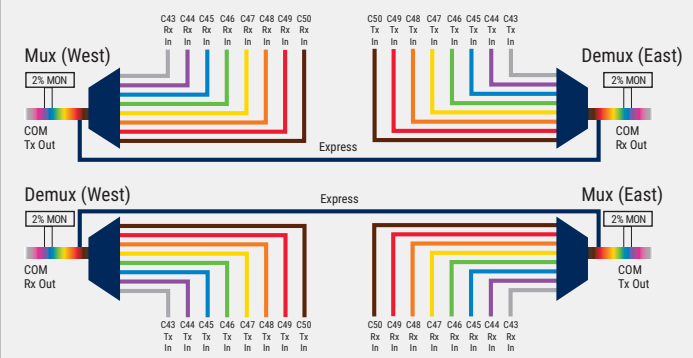
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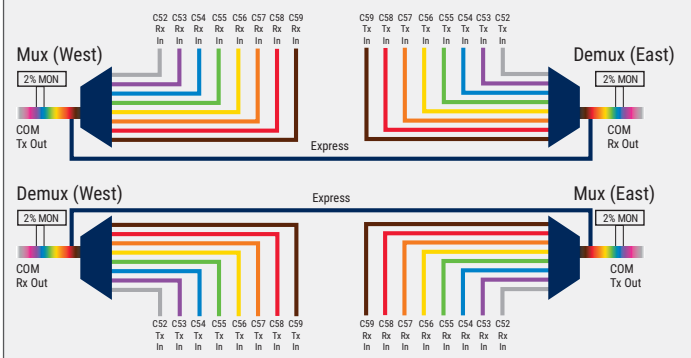
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ZS-DW1-E18MBPE-8-1-43-0-2-S

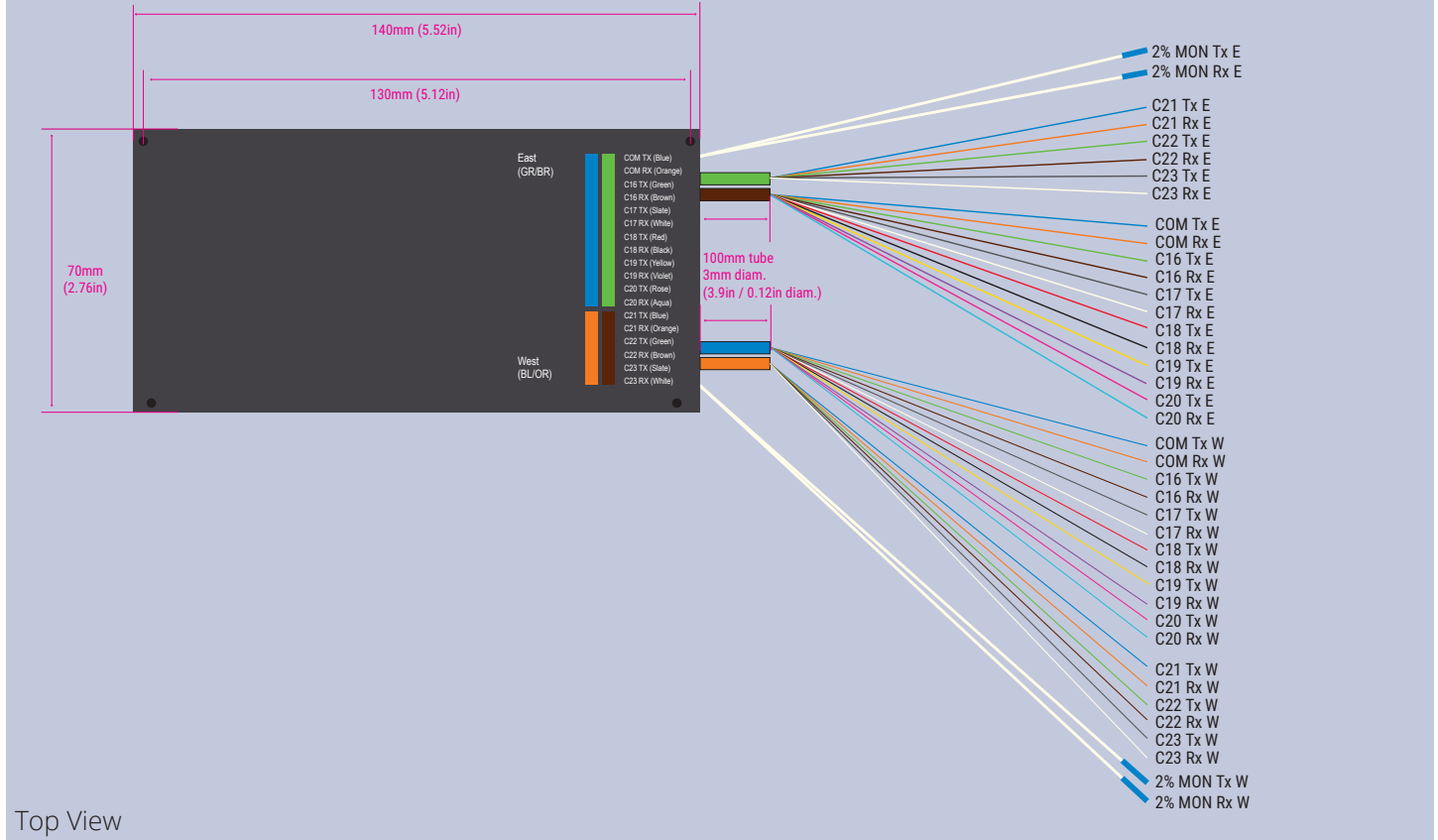


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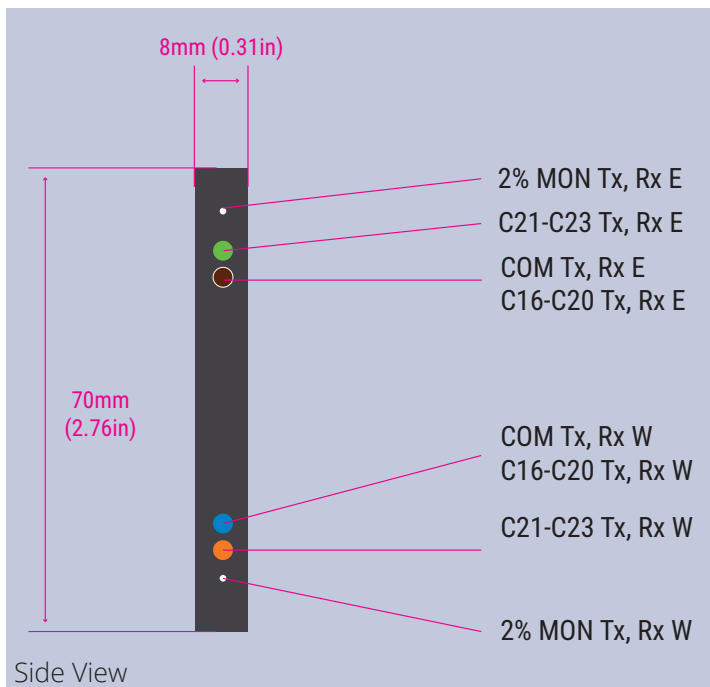


Physical Diagrams and Extended Loss Specifications

ZS-DW1-E18MBPE-8-1-16-0-2-S



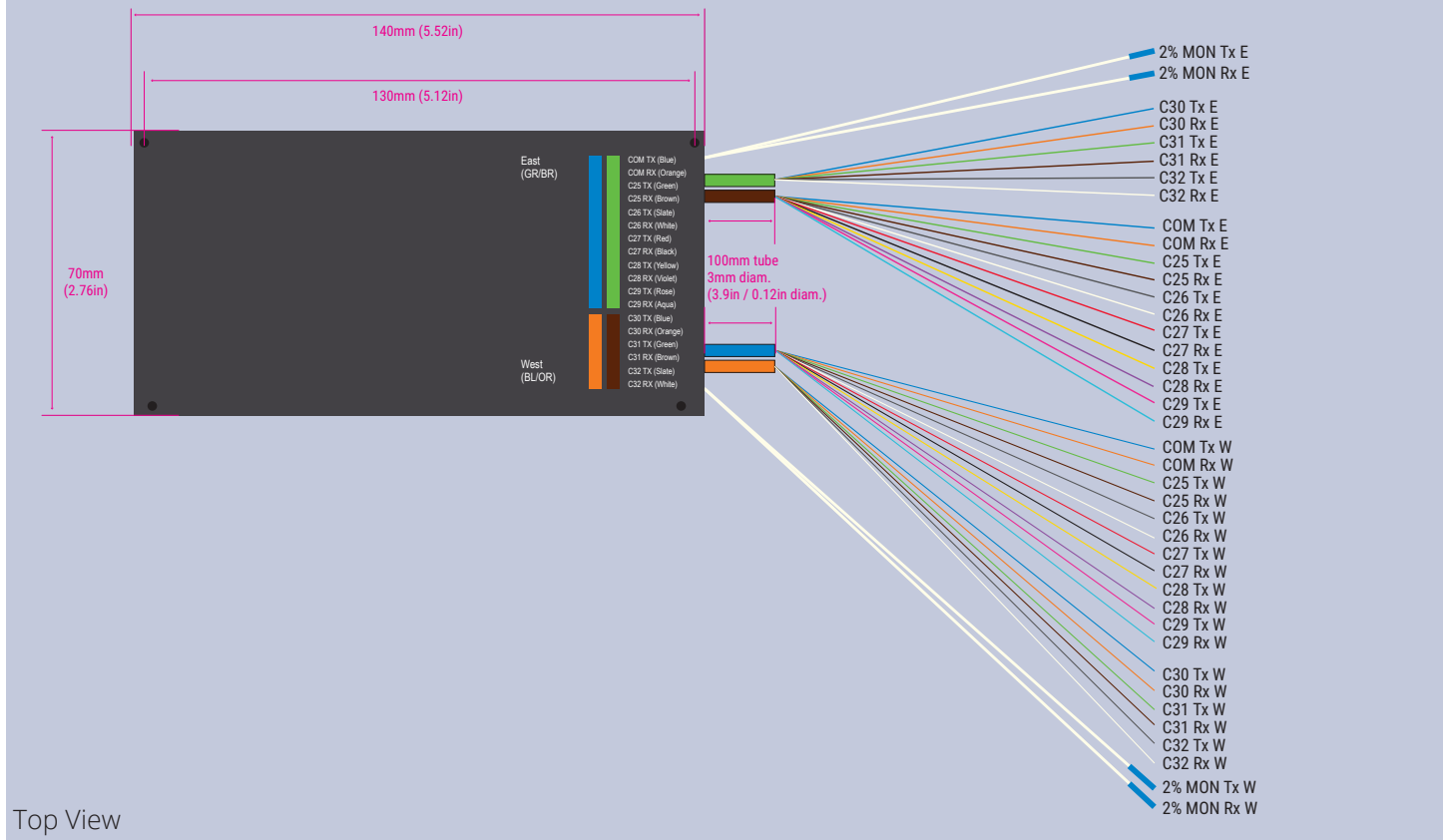
Top View



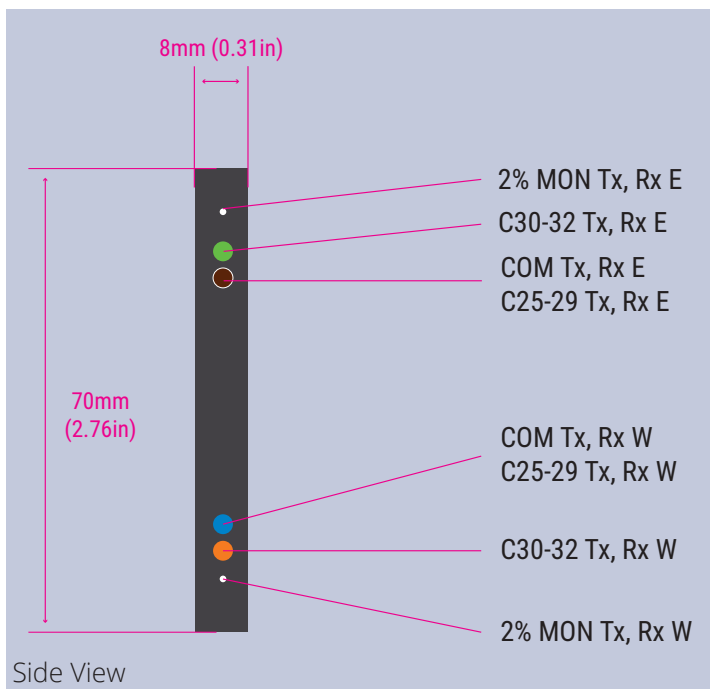
Side View

Channel	Typical		Max	
	West IL (dB)	East IL (dB)	West IL (dB)	East IL (dB)
ITU ch. 16	1.6	3.2	1.8	3.4
ITU ch. 17	1.9	3.0	2.1	3.2
ITU ch. 18	2.2	2.8	2.4	3.0
ITU ch. 19	2.4	2.6	2.6	2.8
ITU ch. 20	2.6	2.4	2.8	2.6
ITU ch. 21	2.8	2.2	3.0	2.4
ITU ch. 22	3.0	1.9	3.2	2.1
ITU ch. 23	3.2	1.6	3.4	1.8

ZS-DW1-E18MBPE-8-1-25-0-2-S



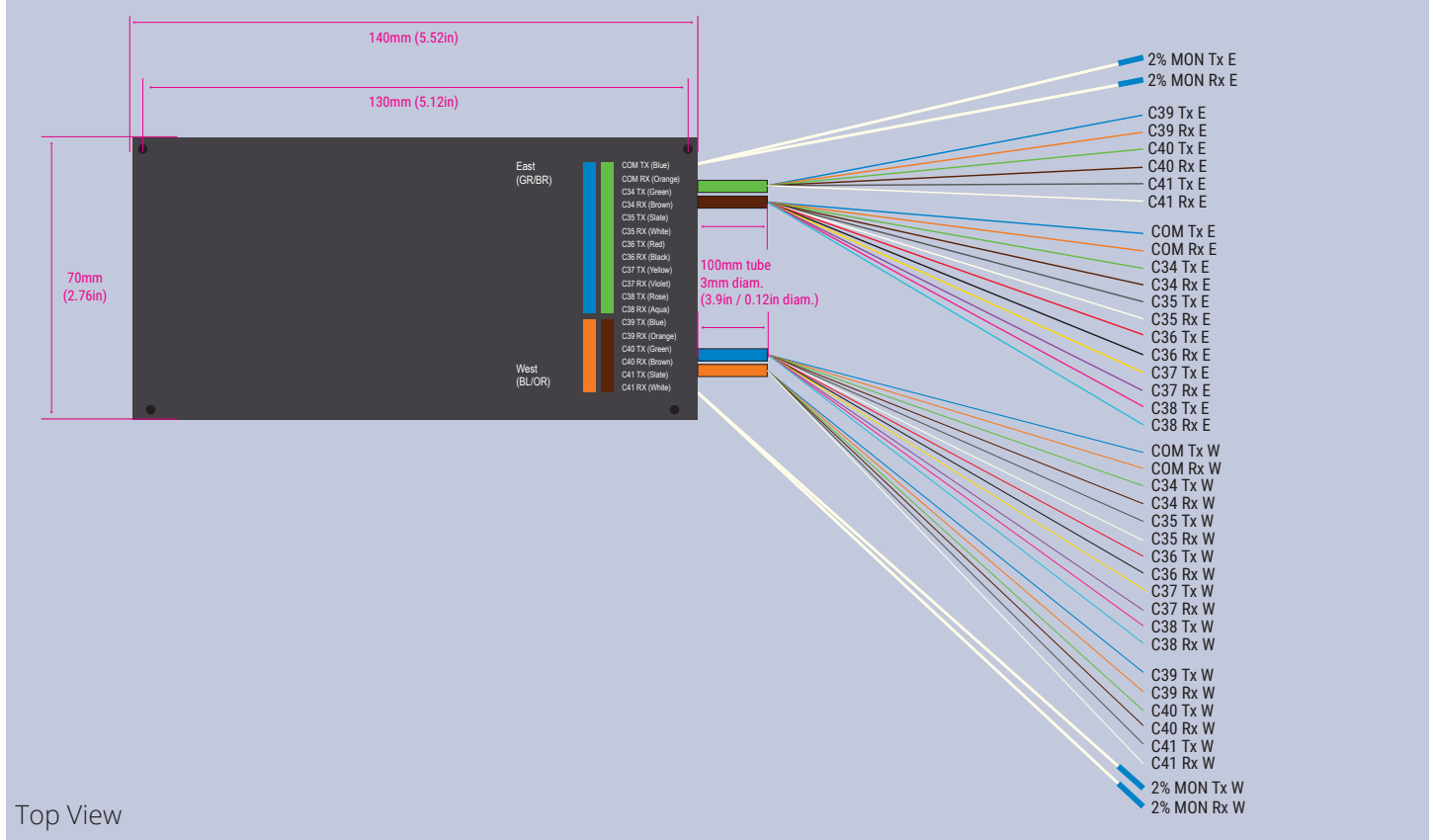
Top View



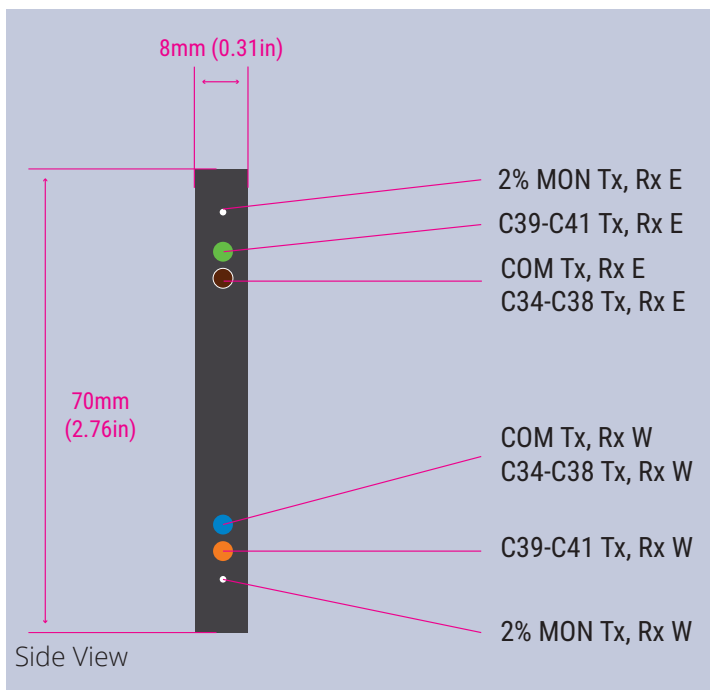
Side View

Channel	Typical		Max	
	West IL (dB)	East IL (dB)	West IL (dB)	East IL (dB)
ITU ch. 25	1.8	3.4	2.0	3.6
ITU ch. 26	2.1	3.2	2.3	3.4
ITU ch. 27	2.4	3.0	2.6	3.2
ITU ch. 28	2.6	2.8	2.8	3.0
ITU ch. 29	2.8	2.6	3.0	2.8
ITU ch. 30	3.0	2.4	3.2	2.6
ITU ch. 31	3.2	2.1	3.4	2.3
ITU ch. 32	3.4	1.8	3.6	2.0

ZS-DW1-E18MBPE-8-1-34-0-2-S



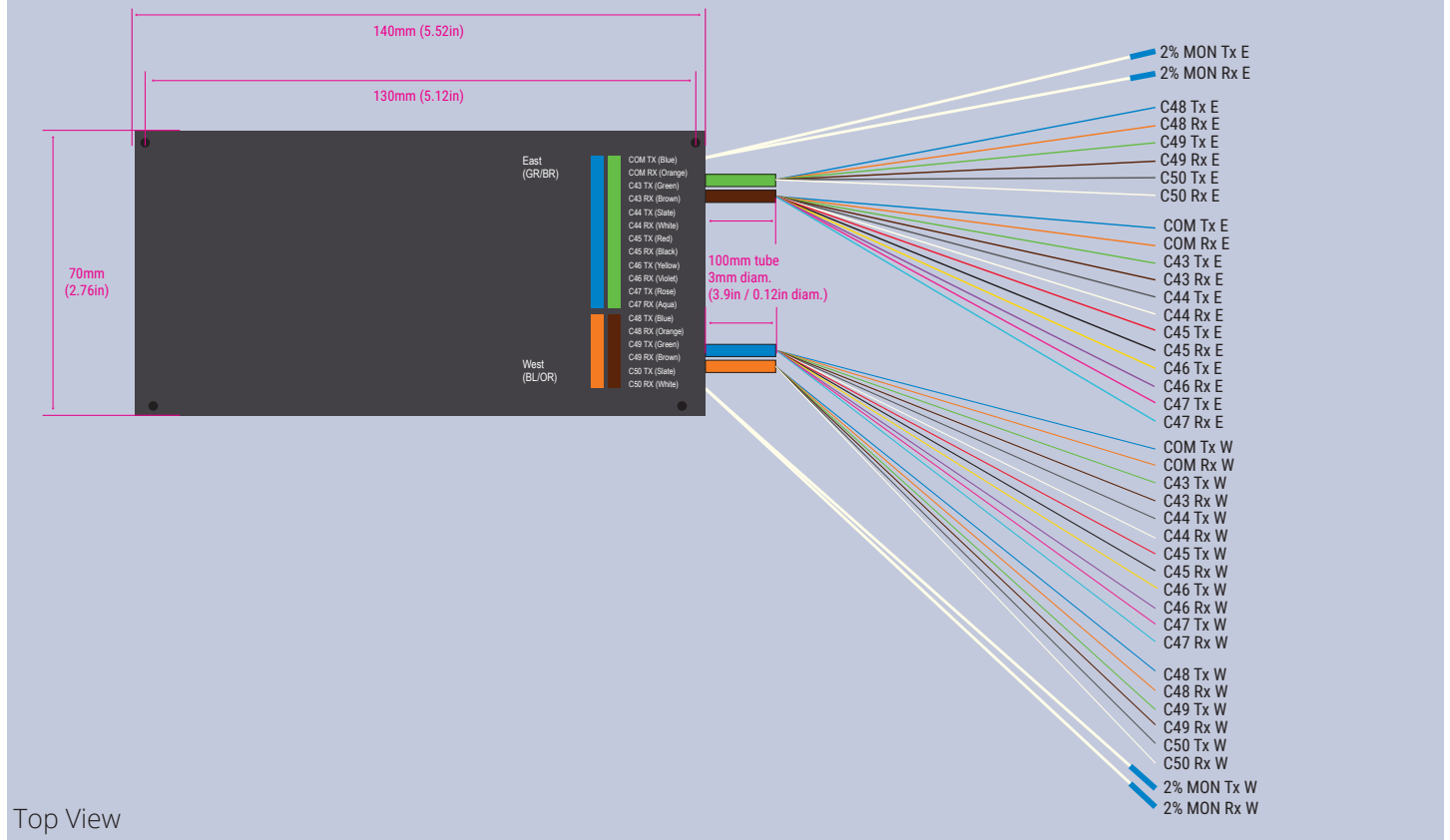
Top View



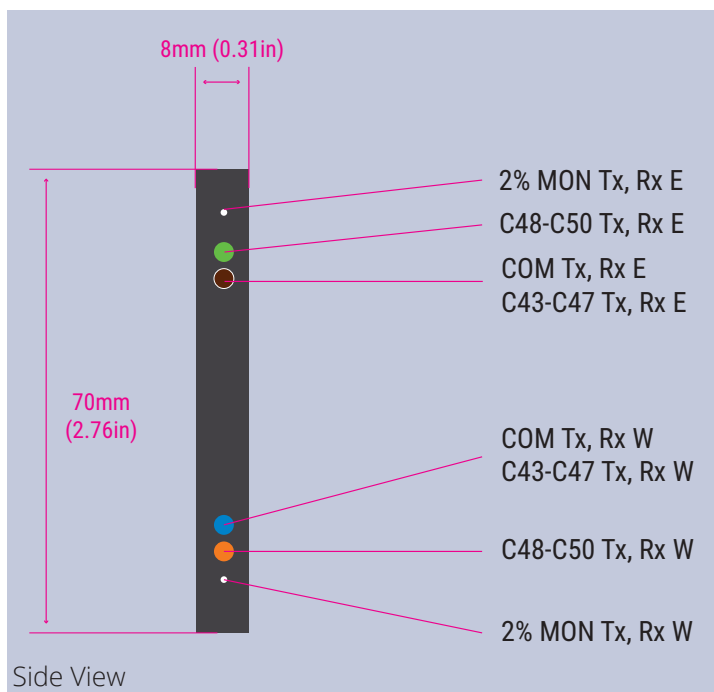
Side View

Channel	Typical		Max	
	West IL (dB)	East IL (dB)	West IL (dB)	East IL (dB)
ITU ch. 34	1.8	3.4	2.0	3.6
ITU ch. 35	2.1	3.2	2.3	3.4
ITU ch. 36	2.4	3.0	2.6	3.2
ITU ch. 37	2.6	2.8	2.8	3.0
ITU ch. 38	2.8	2.6	3.0	2.8
ITU ch. 39	3.0	2.4	3.2	2.6
ITU ch. 40	3.2	2.1	3.4	2.3
ITU ch. 41	3.4	1.8	3.6	2.0

ZS-DW1-E18MBPE-8-1-43-0-2-S



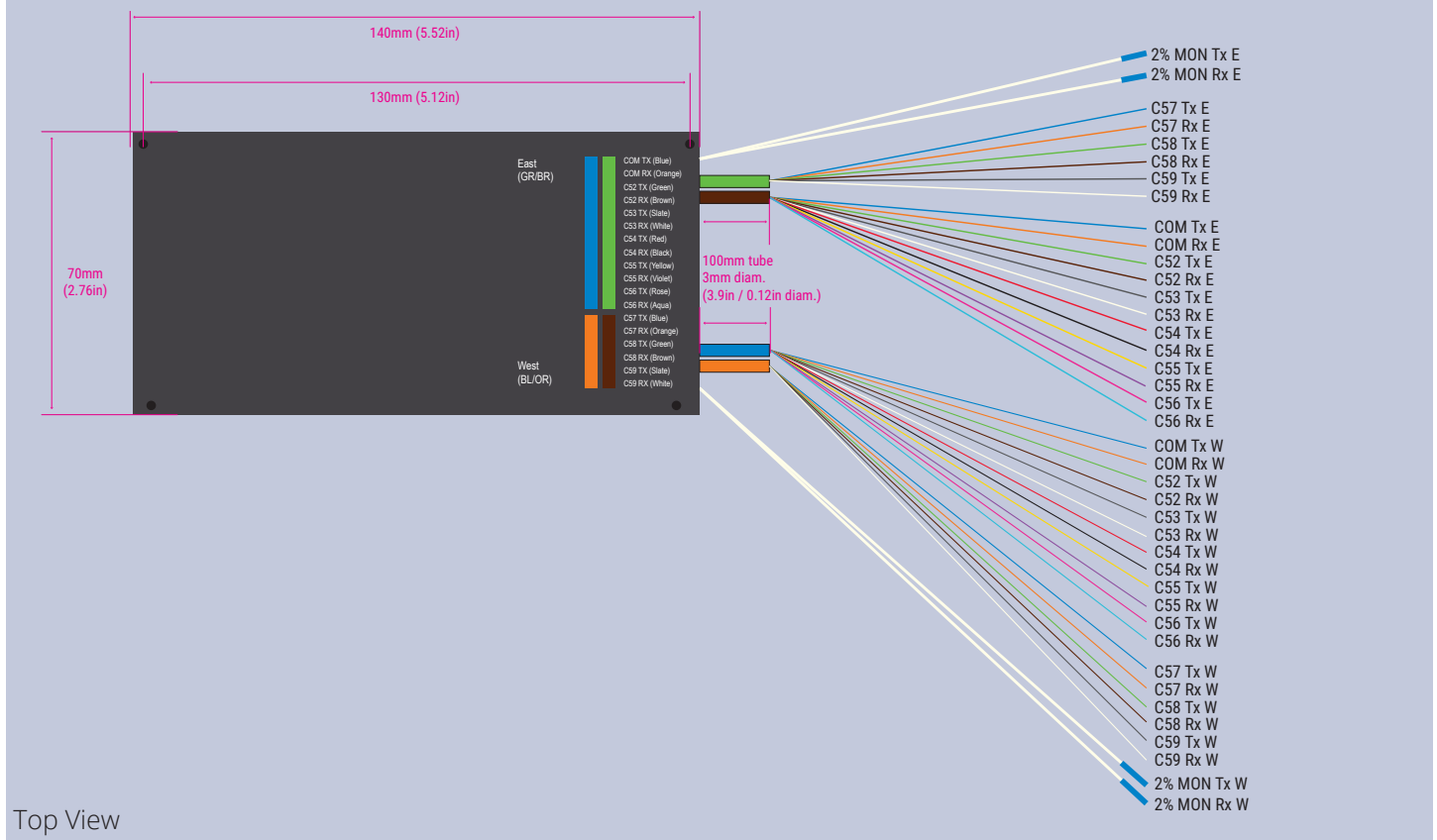
Top View



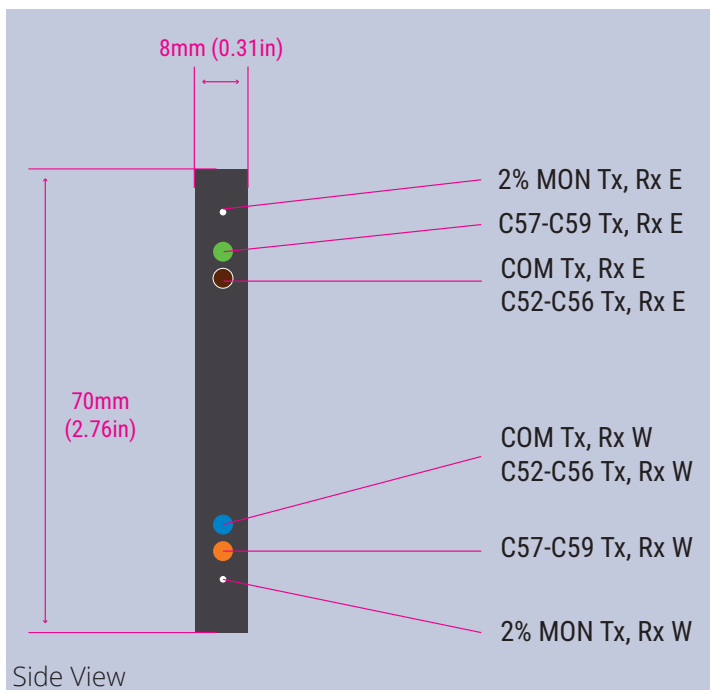
Side View

Channel	Typical		Max	
	West IL (dB)	East IL (dB)	West IL (dB)	East IL (dB)
ITU ch. 43	1.8	3.4	2.0	3.6
ITU ch. 44	2.1	3.2	2.3	3.4
ITU ch. 45	2.4	3.0	2.6	3.2
ITU ch. 46	2.6	2.8	2.8	3.0
ITU ch. 47	2.8	2.6	3.0	2.8
ITU ch. 48	3.0	2.4	3.2	2.6
ITU ch. 49	3.2	2.1	3.4	2.3
ITU ch. 50	3.4	1.8	3.6	2.0

ZS-DW1-E18MBPE-8-1-52-0-2-S



Top View



Side View

Channel	Typical		Max	
	West IL (dB)	East IL (dB)	West IL (dB)	East IL (dB)
ITU ch. 52	1.8	3.4	2.0	3.6
ITU ch. 53	2.1	3.2	2.3	3.4
ITU ch. 54	2.4	3.0	2.6	3.2
ITU ch. 55	2.6	2.8	2.8	3.0
ITU ch. 56	2.8	2.6	3.0	2.8
ITU ch. 57	3.0	2.4	3.2	2.6
ITU ch. 58	3.2	2.1	3.4	2.3
ITU ch. 59	3.4	1.8	3.6	2.0