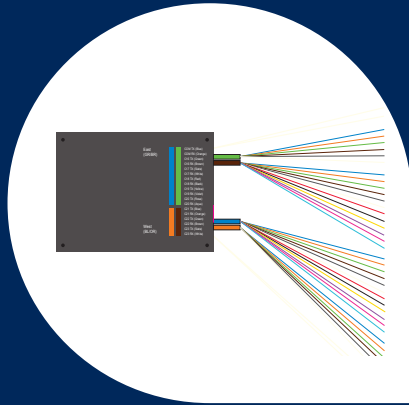


PASSIVES DATA SHEET

8 Channel Dual Fiber BPS OADM DWDM CH's. 16-23, 25-32, 34-41, 43-50, 52-59 Compact Passive



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
 Express Wavelengths: 1500-1600nm (except CH. 16~CH. 23, CH. 15, CH. 24), 1610-1660nm

FORM FACTOR AND CONNECTOR TYPE

Compact OSP cassette (IP68-compliant submersible)
 LC/UPC connector (MON only)

DIMENSIONS (LXWXH)

92 x 77 x 8mm
 2m fiber pigtails

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
COM > Channel Insertion Loss (dB)	≤ 3.9
Channel > COM Insertion Loss (dB)	≤ 3.9
COM East <> COM West Insertion Loss (dB)	≤ 1.8
MON Port Insertion Loss (Mux/Demux, dB)	$\leq 22.4 / 19.0$ (East) $\leq 22.4 / 19.0$ (West)
Passband Ripple (dB)	≤ 0.5
Adjacent Channel Isolation (dB)	≥ 30
Non-Adjacent Channel Isolation (dB)	≥ 40

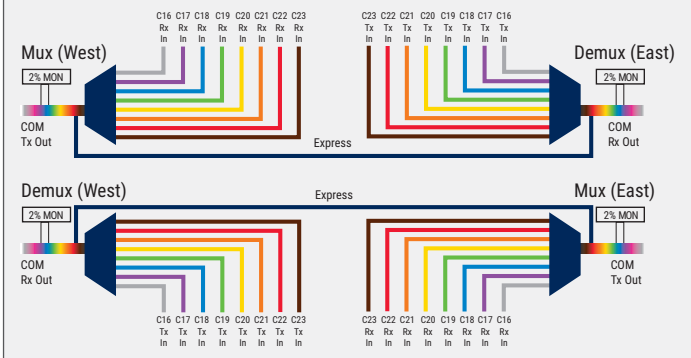
Parameter	Value
Polarization Dependent Loss (dB)	≤ 0.2
Directivity (dB)	≥ 50
Return Loss (dB)	≥ 45
Polarization Mode Dispersion (ps)	≤ 0.2
Fiber Type	900 μ m (MON only); colored bare fibers
Max Power Handling (mW)	300

Ordering Information

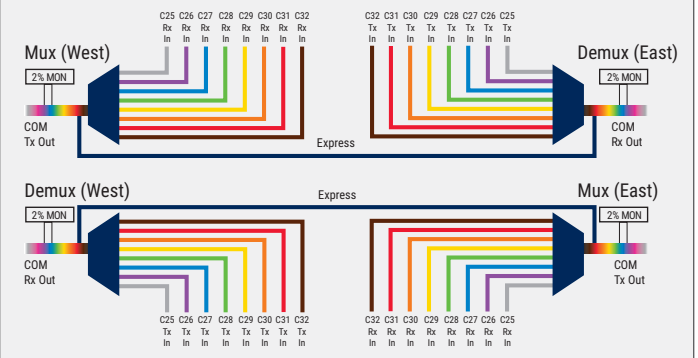
C1 Part Number	Description
SUBMERSIBLE OSP CASSETTE	
ZS-DW1-E18MBPE-8-1-16-TBNT-2-S	DWDM OADM 100GHz 8 CH, LC and 900um on Mon only, CH 16 start, 8-1 skip, BPS Express, Mon, 2M fibers, 92x77x8mm Module only, Tyco B size no tray, Submersible
ZS-DW1-E18MBPE-8-1-25-TBNT-2-S	DWDM OADM 100GHz 8 CH, LC and 900um on Mon only, CH 25 start, 8-1 skip, BPS Express, Mon, 2M fibers, 92x77x8mm Module only, Tyco B size no tray, Submersible
ZS-DW1-E18MBPE-8-1-34-TBNT-2-S	DWDM OADM 100GHz 8 CH, LC and 900um on Mon only, CH 34 start, 8-1 skip, BPS Express, Mon, 2M fibers, 92x77x8mm Module only, Tyco B size, no tray, Submersible
ZS-DW1-E18MBPE-8-1-43-TBNT-2-S	DWDM OADM 100GHz 8 CH, LC and 900um on Mon only, CH 43 start, 8-1 skip, BPS Express, Mon, 2M fibers, 92x77x8mm Module only, Tyco B size no tray, Submersible
ZS-DW1-E18MBPE-8-1-52-TBNT-2-S	DWDM OADM 100GHz 8 CH, LC and 900um on Mon only, CH 52 start, 8-1 skip, BPS Express, Mon, 2M fibers, 92x77x8mm Module only, Tyco B size no tray, Submersible

Network Diagrams

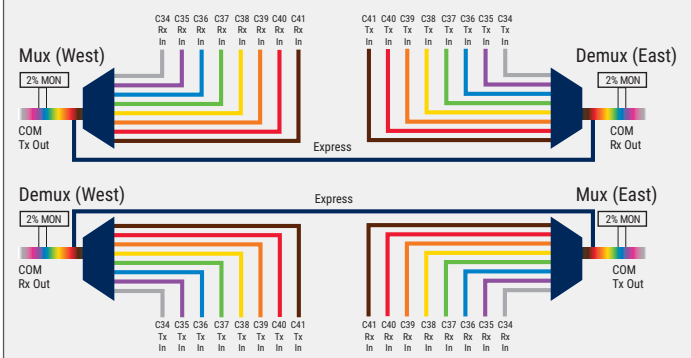
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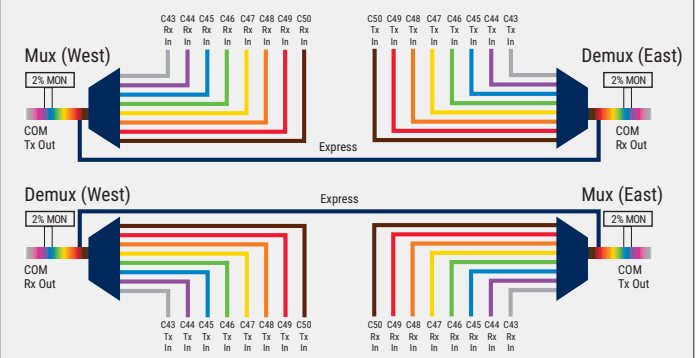
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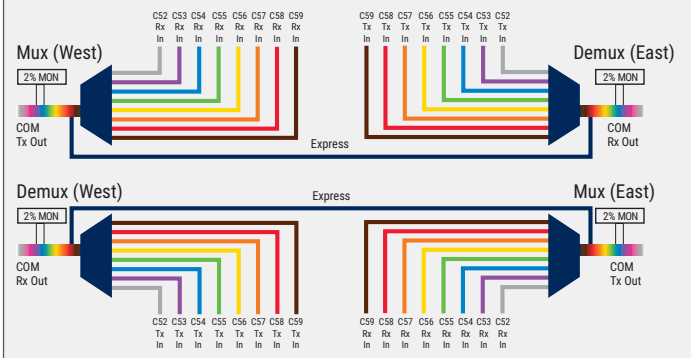
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ZS-DW1-E18MBPE-8-1-43-TBNT-2-S

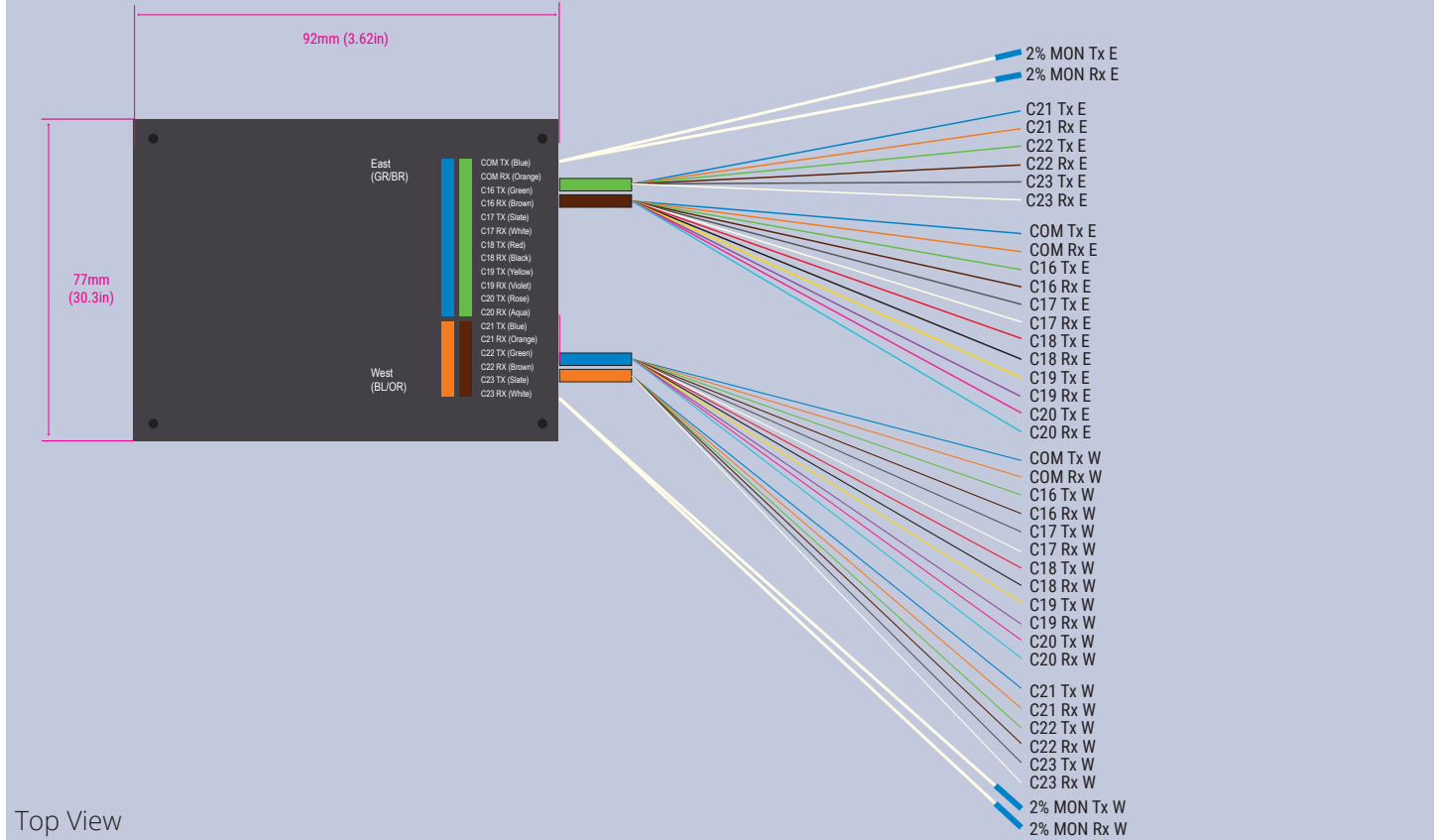


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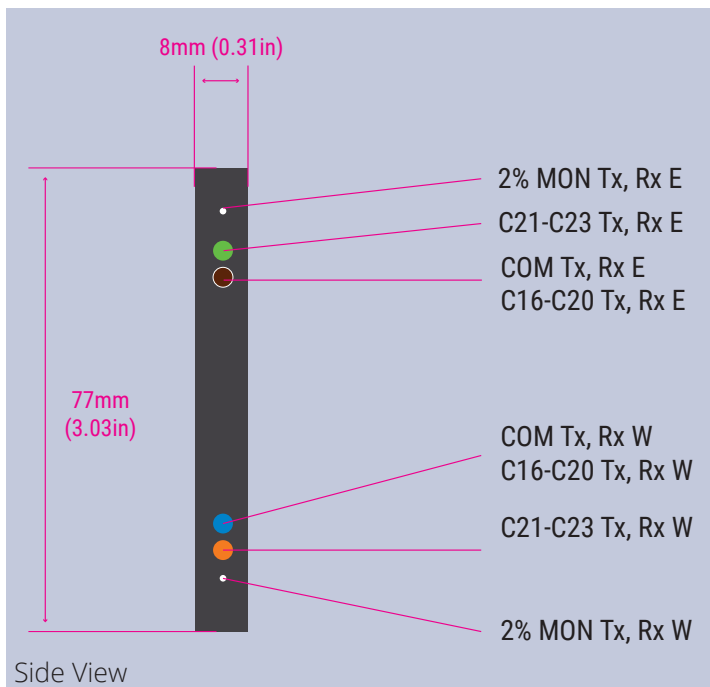


Physical Diagrams and Extended Loss Specifications

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



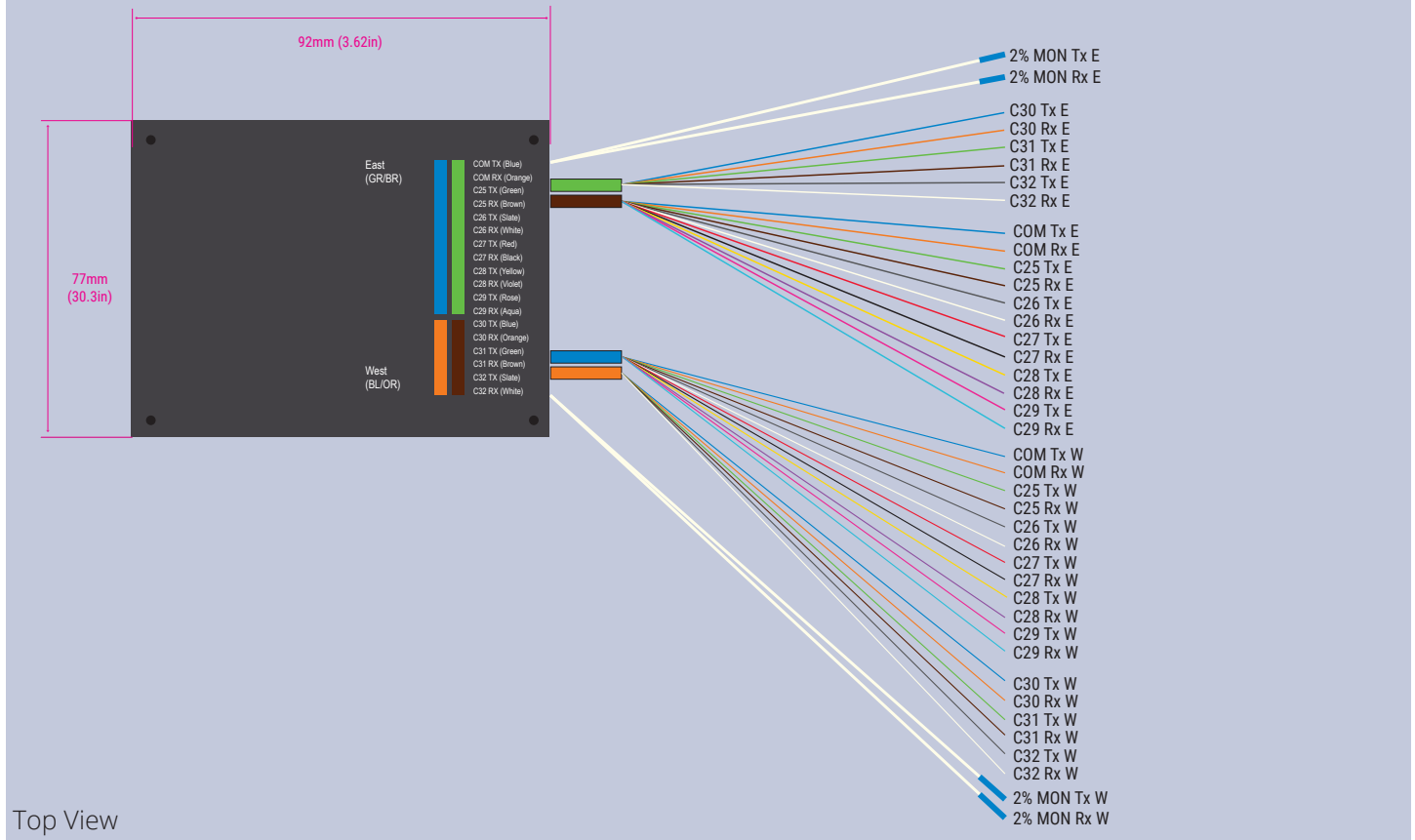
Top View



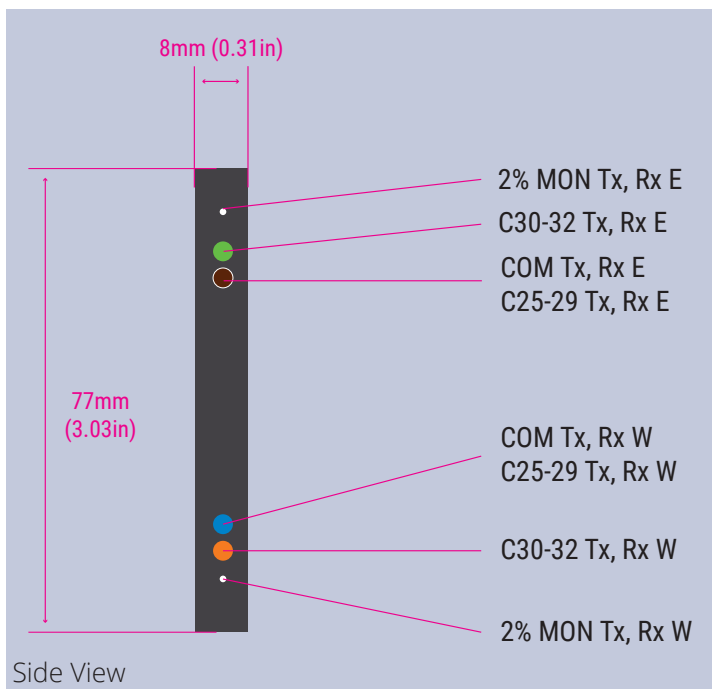
Side View

Channel	Typical		Max	
	West IL (dB)	East IL (dB)	West IL (dB)	East IL (dB)
ITU CH. 16	2.1	3.7	2.3	3.9
ITU CH. 17	2.4	3.5	2.6	3.7
ITU CH. 18	2.7	3.3	2.9	3.5
ITU CH. 19	2.9	3.1	3.1	3.3
ITU CH. 20	3.1	2.9	3.3	3.1
ITU CH. 21	3.3	2.7	3.5	2.9
ITU CH. 22	3.5	2.4	3.7	2.6
ITU CH. 23	3.7	2.1	3.9	2.3

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



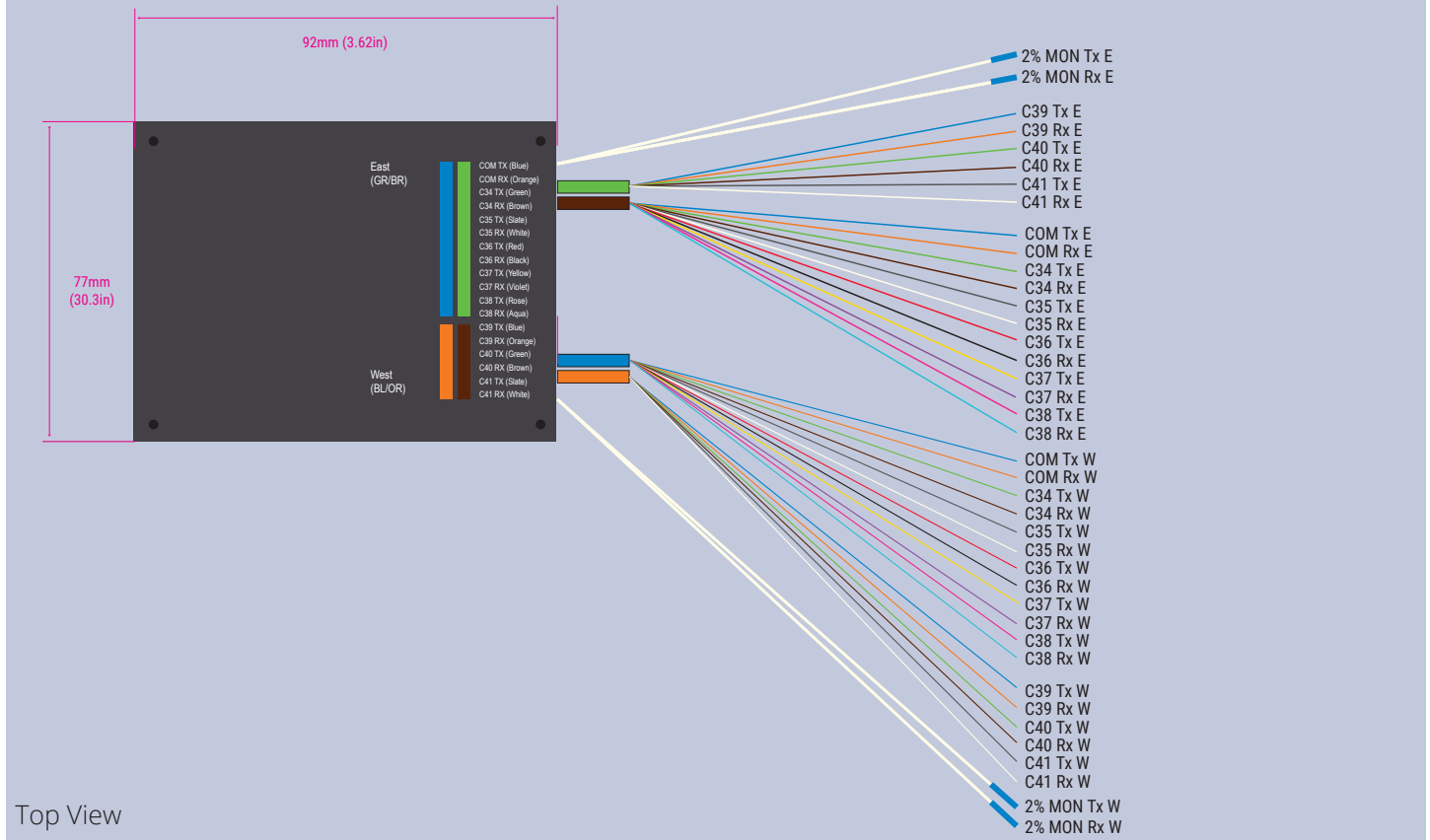
Top View



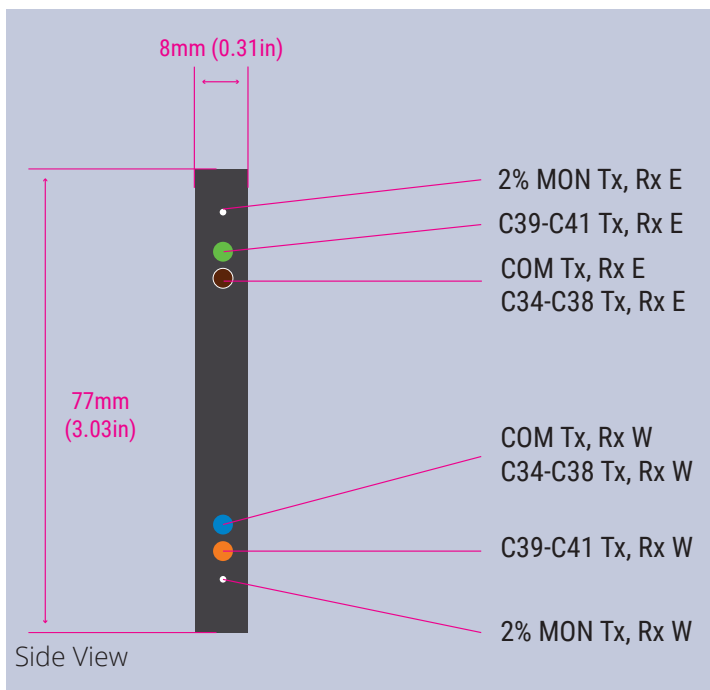
Side View

Channel	Typical		Max	
	West IL (dB)	East IL (dB)	West IL (dB)	East IL (dB)
ITU CH. 25	2.1	3.7	2.3	3.9
ITU CH. 26	2.4	3.5	2.6	3.7
ITU CH. 27	2.7	3.3	2.9	3.5
ITU CH. 28	2.9	3.1	3.1	3.3
ITU CH. 29	3.1	2.9	3.3	3.1
ITU CH. 30	3.3	2.7	3.5	2.9
ITU CH. 31	3.5	2.4	3.7	2.6
ITU CH. 32	3.7	2.1	3.9	2.3

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



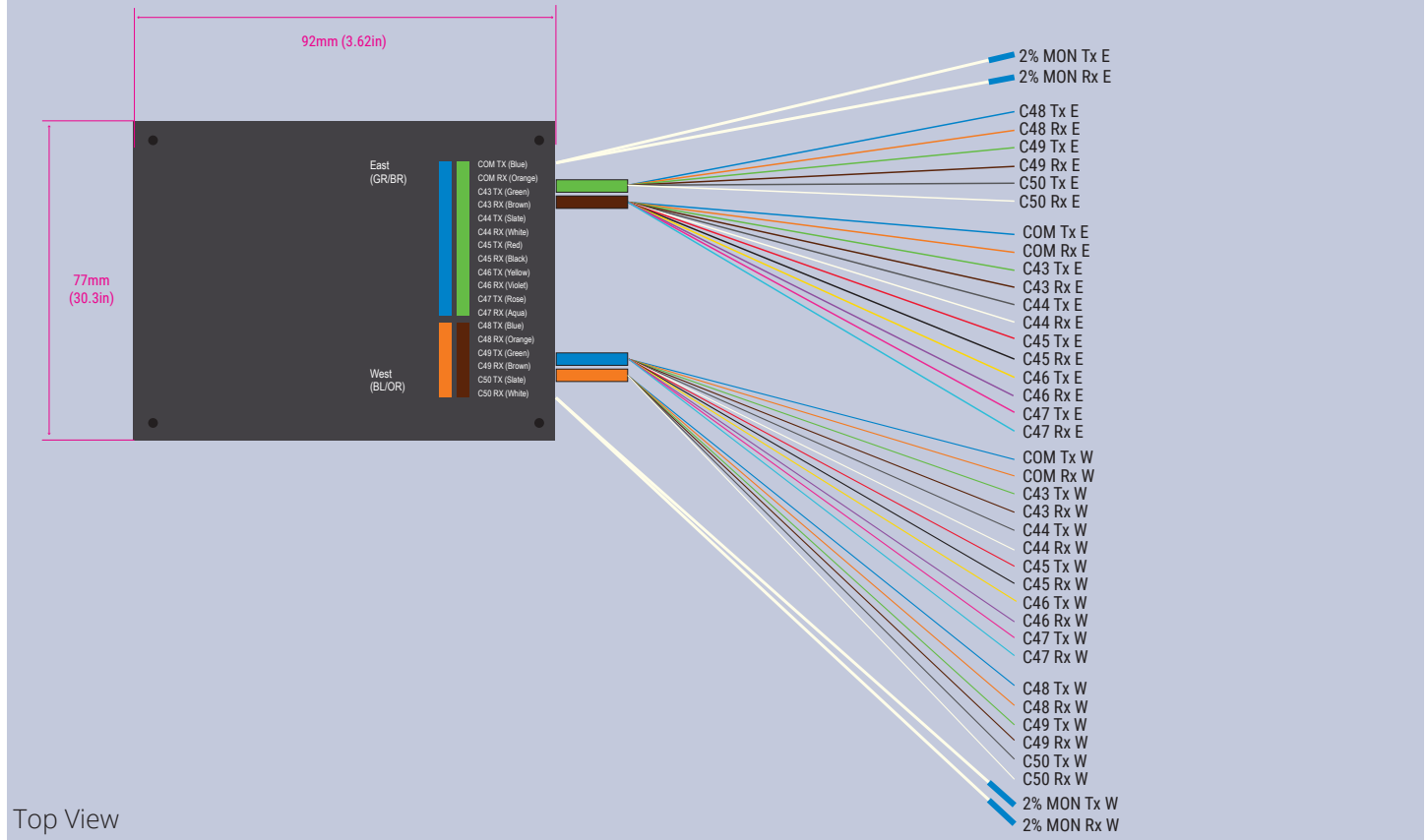
Top View



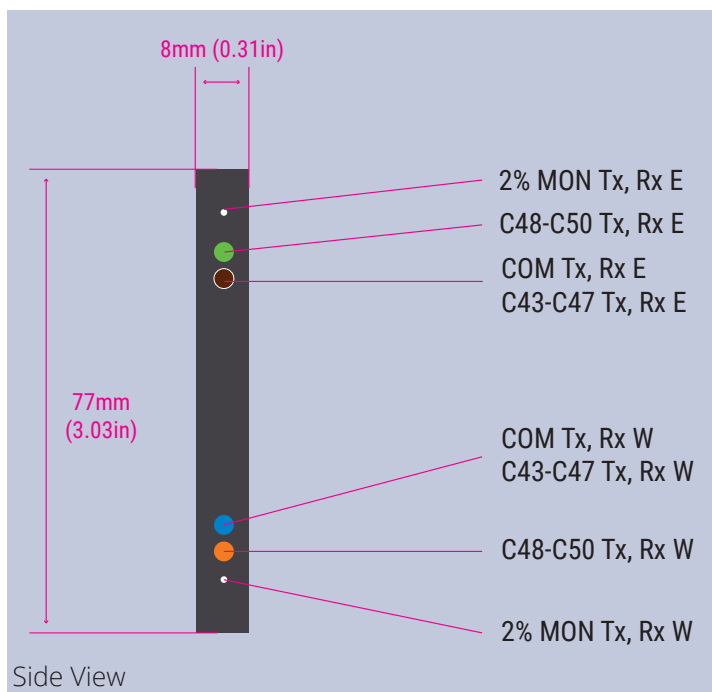
Side View

Channel	Typical		Max	
	West IL (dB)	East IL (dB)	West IL (dB)	East IL (dB)
ITU CH. 34	2.1	3.7	2.3	3.9
ITU CH. 35	2.4	3.5	2.6	3.7
ITU CH. 36	2.7	3.3	2.9	3.5
ITU CH. 37	2.9	3.1	3.1	3.3
ITU CH. 38	3.1	2.9	3.3	3.1
ITU CH. 39	3.3	2.7	3.5	2.9
ITU CH. 40	3.5	2.4	3.7	2.6
ITU CH. 41	3.7	2.1	3.9	2.3

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



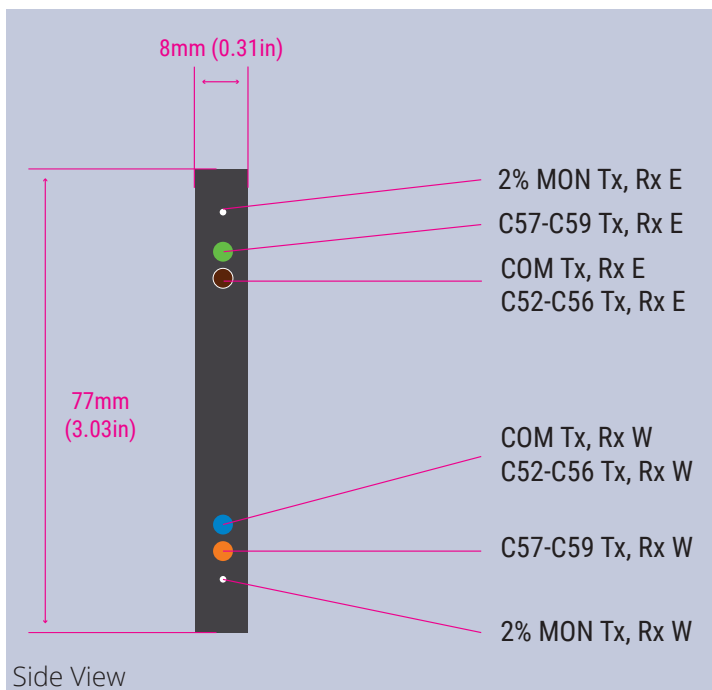
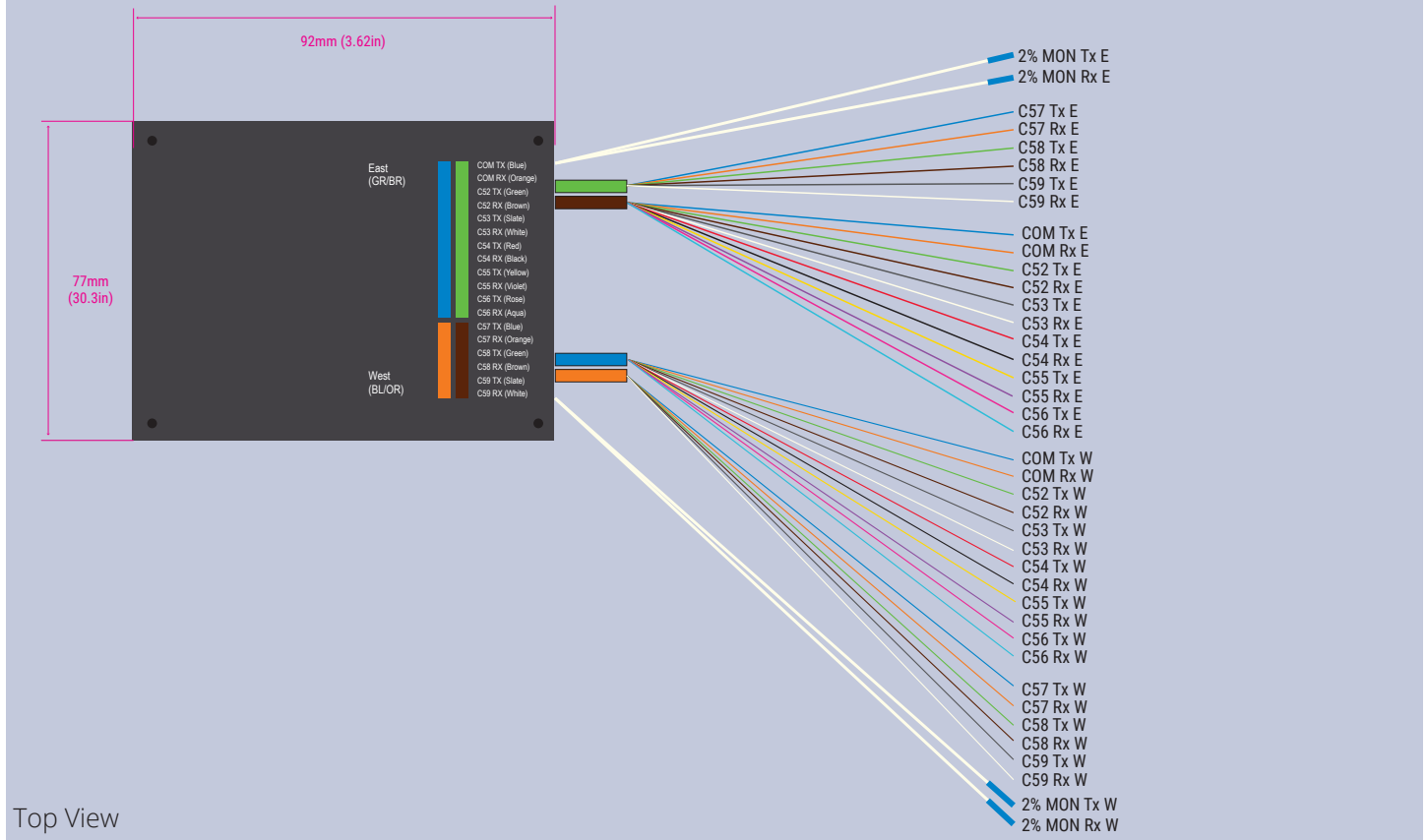
Top View



Side View

Channel	Typical		Max	
	West IL (dB)	East IL (dB)	West IL (dB)	East IL (dB)
ITU CH. 43	2.1	3.7	2.3	3.9
ITU CH. 44	2.4	3.5	2.6	3.7
ITU CH. 45	2.7	3.3	2.9	3.5
ITU CH. 46	2.9	3.1	3.1	3.3
ITU CH. 47	3.1	2.9	3.3	3.1
ITU CH. 48	3.3	2.7	3.5	2.9
ITU CH. 49	3.5	2.4	3.7	2.6
ITU CH. 50	3.7	2.1	3.9	2.3

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



Channel	Typical		Max	
	West IL (dB)	East IL (dB)	West IL (dB)	East IL (dB)
ITU CH. 52	2.1	3.7	2.3	3.9
ITU CH. 53	2.4	3.5	2.6	3.7
ITU CH. 54	2.7	3.3	2.9	3.5
ITU CH. 55	2.9	3.1	3.1	3.3
ITU CH. 56	3.1	2.9	3.3	3.1
ITU CH. 57	3.3	2.7	3.5	2.9
ITU CH. 58	3.5	2.4	3.7	2.6
ITU CH. 59	3.7	2.1	3.9	2.3