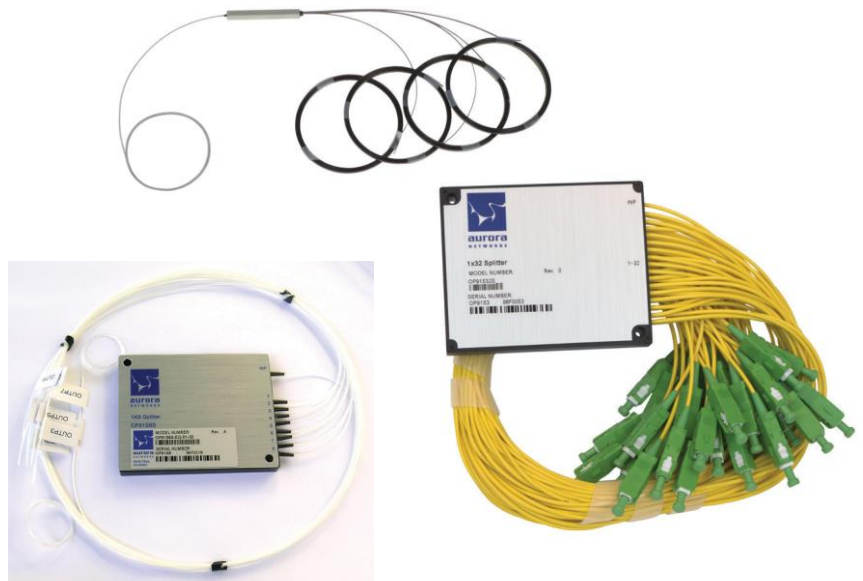


Optical Passives (OSP)

OP91S8S, OP91S16S, OP91S32S
1x8, 1x16, and 1x32 Optical Splitters/Combiners

FEATURES

- Low insertion loss
- Wide operating wavelength window (1263–1618 nm)
- Operating temperature range -40° to $+85^{\circ}\text{C}$
- Telcordia GR-1209 and GR-1221 qualified, providing excellent environmental and mechanical stability
- Variety of options for module package size, fiber jacket and connector types
- Epoxy-free on optical path



PRODUCT OVERVIEW

ARRIS's OP91S8S, OP91S16S and OP91S32S series splitters and combiners have been designed with high uniformity and low insertion and polarization dependent loss. The product family of modules includes 1x8, 1x16, and 1x32 splitters/combiners with equal split outputs, all offered with optional SC/APC type connectors.

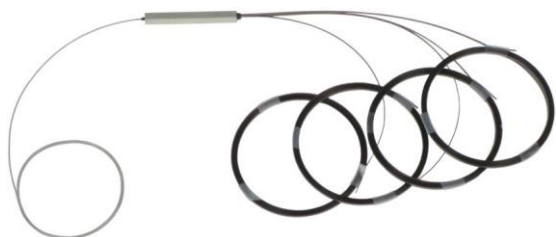
The splitters/combiners are available in two versions of packaging for outdoor use, one version ruggedized for easy handling and the second version, though not ruggedized, being smaller and easier to fit in a splice enclosure. Both versions are designed for use in an outdoor environment within a temperature range of -40° to $+85^{\circ}\text{C}$.

SPECIFICATIONS

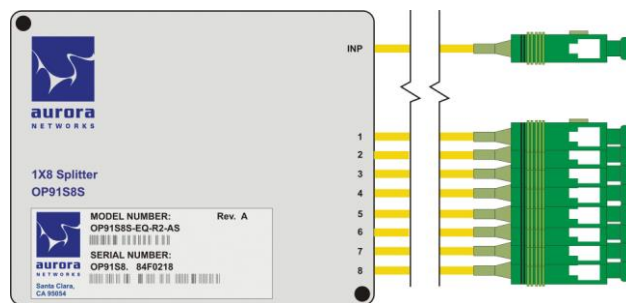
Characteristics	Specification																
Physical																	
Dimensions	See Ordering Information																
Weight, max	0.4 lbs (0.2 kg)																
Environmental																	
Operating Temperature Range	-40°C to +85°C (-40°F to +185°F)																
Storage Temperature Range	-40°C to +85°C (-40°F to +185°F)																
Humidity	5% to 95% non-condensing																
Optical																	
Optical connectors	See Ordering Information																
Splitter types (all PLC-based and all with equal outputs)	1x8 (12.5%), 1x16 (6.25%), and 1x32 (3.125%)																
Operating wavelength	1263.5 – 1617.5 nm																
Directivity, min	55 dB																
Return loss, min	55 dB																
Input power handling, max	27 dBm																
Polarization dependent loss, max	<ul style="list-style-type: none"> • 1x8 and 1x16 splitters: 0.2 dB • 1x32 splitters: 0.3 dB 																
Spectral flatness, max	0.5 dB																
Insertion Losses and Uniformity																	
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Part Number</th> <th>Splitter Type</th> <th>Insertion Loss, max, with conns (dB)</th> <th>Uniformity, max (dB)</th> </tr> </thead> <tbody> <tr> <td>OP91S8S-EQ-xy-zz</td> <td>1x8</td> <td>10.9</td> <td>0.7</td> </tr> <tr> <td>OP91S16S-EQ-xy-zz</td> <td>1x16</td> <td>13.9</td> <td>1.5</td> </tr> <tr> <td>OP91S32S-EQ-xy-zz</td> <td>1x32</td> <td>17.3</td> <td>1.9</td> </tr> </tbody> </table>	Part Number	Splitter Type	Insertion Loss, max, with conns (dB)	Uniformity, max (dB)	OP91S8S-EQ-xy-zz	1x8	10.9	0.7	OP91S16S-EQ-xy-zz	1x16	13.9	1.5	OP91S32S-EQ-xy-zz	1x32	17.3	1.9
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PACKAGE OPTIONS

Two examples are shown below. Output split ratio percentages are printed on the labels of ruggedized packages.



OP91S32S -EQ-N0-00 1x32 Splitter in Non-ruggedized Package
(actual product photo, shown approximately quarter scale)



NP91S08SEQZ00-2FA-AS 1x8-Splitter in "F" Case (shown half scale)

ORDERING INFORMATION

Part Number	
OP91S8S-EQ-N0-00	1x8 Splitter with 0.25 mm bare fiber pigtails in 50x4x4 mm "N" case, not connectorized
OP91S8S-EQ-R1-00	1x8 Splitter with 0.9 mm bare fiber pigtails in 96x78x8 mm ruggedized "F" case, not connectorized OP91S8S-EQ-R2-AS
OP91S8S-EQ-R2-AS	1x8 Splitter with 2 mm jacketed fibers in 96x78x8 mm ruggedized "F" case, with SC/APC connectors
OP91S16S-EQ-N0-00	1x16 Splitter with 0.25 mm bare fiber pigtails in 50x7x4 mm "N" case, not connectorized
OP91S16S-EQ-R1-00	1x16 Splitter with 0.9 mm bare fiber pigtails in 96x78x8 mm ruggedized "F" Case, not connectorized
OP91S16S-EQ-R2-AS	1x16 Splitter with 2 mm jacketed fibers in 96x78x8 mm ruggedized "F" case, with SC/APC connectors
OP91S32S-EQ-N0-00	1x32 Splitter with 0.25 mm bare fiber pigtails in 50x7x4 mm "N" case, not connectorized
OP91S32S-EQ-R2-AS	1x32 Splitter with 2 mm jacketed fibers in 96x78x13.2 mm ruggedized "F" case, with SC/APC conns

Note: Fiber length for all models without connectors is minimum 1 meter, and for all models with connectors is minimum 1.5 meters.

RELATED PRODUCTS

Optical Transmitters	Optical Passives
Digital Return	Optical Patch Cords
Optical Nodes	Installation Services

Customer Care

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

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