



Product Catalogue
Telecom Solutions

version 2017



OPTRONICS

Empowering businesses through innovative network solutions.

We have been pushing boundaries and providing innovative products and solutions to clients around the world for nearly two decades. Our experience has taught us, that innovation can be achieved when people collaborate. The process and results are overly rewarding when creative minds are put together, that is why we work with clients throughout the entire design and engineering process to bring their innovations to life. Our high-quality manufacturing process, means that we enable our engineers to bring their visions to life, with the speed and scale that our clients demand.

We use the most advanced manufacturing innovations available, reducing lead time and making us more responsive. Our advantage system for manufacturing that we use, allows for global breakthroughs, and drives a culture of continuous improvement, which involves all processes in between.

OptronicsPlus believes that achieving product excellence requires rising above industry standards; being better than our competitors by developing superior designs and manufacturing them with excellent processes, tight controls, and first-rate materials. Indeed, higher levels of quality and reliability are symbols of all OptronicsPlus products.



Commitment.

Delivering world-class client service and technical innovation are not just goals: they are imbedded in to OptronicsPlus's DNA.



Trust.

We strive to under promise and over deliver. OptronicsPlus earns the trust of clients, partners, and employees through actions every day.



Reliability.

Clients and business partners depend on OptronicsPlus because of our uncompromising focus on quality.



ISO 9001:2008 Certified.

Products bearing the OptronicsPlus name have been certified to meet the highest industry quality standards.



Fast Deployment.

We use the most advanced manufacturing innovations available, reducing lead time and making us more responsive.



Value.

Value is the combination of quality, efficacy, and a fair price. OptronicsPlus supply superior products, affordably.

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TÜV
AUSTRIA
HELLAS
EN ISO 9001:2008
No.: 0217100064483

“Our clients and business partners can safely depend on OptronicsPlus products because of our uncompromising focus on quality.”



1xN 2xN PLC Splitter Modules

Introducing range of high performance splitters loaded into a variety of management products to include 19" rack mounted panels and modules.

A move toward PON's within the FTTX arena calls for a device offering low insertions loss, linear uniformity and low return loss, our splitters provide excellent specifications on all of the above as well as complying to and exceeding Telcordia GR-1221-CORE and GR-1209-CORE standards.

Features

- Designed to meet Telcordia standards
- Non-standard housing options available
- Low IL and PDL
- Broadband Operation Wavelength Low Insertion Loss
- Compact Design
- Good channel to channel uniformity
- High Reliability and Stability
- Range of packaging options available
- High specification connectors available
- RoHS Compliance

Applications

- Telecommunication Sector
- PON System
- FTTx
- CATV
- Video Transmission
- WAN's

Specifications

ELEMENT	VALUE	1X4	1X8	1X16	1X32	1X64	2X4	2X8	2X16	2X32
Operating Wavelength	nm	1260~1650								
Insertion Loss without connector	≤dB Max	7.40	10.70	13.70	17.0	21.0	7.80	10.70	14.0	17.50
Insertion Loss with connector	≤dB Max	7.90	11.20	14.20	17.50	21.50	8.30	11.0	14.30	17.80
Loss Uniformity	≤dB	0.60	0.90	1.20	1.70	2.50	0.90	1.0	1.20	1.50
Polarization Dependent Loss	≤dB	0.20	0.30	0.30	0.30	0.40	0.20	0.25	0.30	0.30
Return Loss	dB Min	50								
Directivity	dB Min	55								
Operating Temperature	°C	-40 ~ +85								
Storage Temperature	°C	-40 ~ +85								
Fibre Type		G652.D or G657.A1/A2								
Fibre Length		1 meter or customer specified								
Connector Type		Customer specified								

Notes:

(1) All measurements were performed at room temperature, at wavelength 1310nm & 1550nm.

(2) Coupling losses at the interfaces between the splitter chip and I/O fibres are included.

Ordering Information

	Input Connector		Output Connector		Fibre Type		Wavelength		Configuration Type		Package Style	
OM1	X	None	X	None	9	G.652D	1	Broadband 1260 -1650nm	102	1x2	1U	1U 19"
	0	LC	0	LC	A1	G.657A1	2	1310nm / 1550nm	104	1x4	2U	2U 19"
	1	LCA	1	LCA	A2	G.657A2	3	1310 / 1490 / 1550nm	108	1x8	3U	3U 19"
	2	SC	2	SC					116	1x16		
	3	SCA	3	SCA					132	1x32		
	4	ST	4	ST					164	1x64		
	5	FC	5	FC					202	2x2		
	6	FCA	6	FCA					204	2x4		
	7	E2	7	E2					208	2x8		
	8	E2A	8	E2A					216	2x16		
									232	2x32		
									264	2x64		
									264	2x64		

Example order code

OM1 - 33 91 - 232 - 1U

2 X 32 PLC Splitter module 1U Patch Panel with SCA Connectors



1xN 2xN PLC Splitters

Growth in today's broadband applications demand reliable high-performance splitters for use within a variety of environmental conditions and packaging options. A move towards PON's within the FTTX arena calls for a device offering low insertions loss, linear uniformity and low return loss, our splitters provide excellent specifications as well as complying to and exceeding Telcordia GR-1221-CORE and GR-1209-CORE standards.

Features

- Designed to meet Telcordia standards
- Non-standard housing options available
- Low IL and PDL
- Broadband Operation Wavelength Low Insertion Loss
- Compact Design
- Good channel to channel uniformity
- High Reliability and Stability
- Range of packaging options available
- High specification connectors available
- RoHS Compliance

Applications

- Telecommunication Sector
- PON System
- FTTx
- CATV
- Video Transmission
- WAN's

Specifications

ELEMENT	VALUE	1x2	1X4	1X8	1X16	1X32	1X64	2x2	2X4	2X8	2X16	2X32
Operating Wavelength	nm	1260~1650										
Insertion Loss	≤dB Max	3.8	7.20	10.50	13.50	16.50	21.00	4.0	7.80	10.70	14.0	17.50
Loss Uniformity	≤dB	0.6	0.60	0.80	1.20	1.50	2.50	0.90	0.90	1.0	1.20	1.50
Polarization Dependent Loss	≤dB	0.20	0.20	0.30	0.30	0.30	0.40	0.20	0.20	0.25	0.30	0.30
Return Loss	dB Min	50										
Directivity	dB Min	55										
Operating Temperature	°C	-40 ~ +85										
Storage Temperature	°C	-40 ~ +85										
Fibre Type		G652.D or G657.A1/A2										
Fibre Length		1 meter or customer specified										
Connector Type		Customer specified										

Notes:

(1) All measurements were performed at room temperature.

(2) Coupling losses at the interfaces between the splitter chip and I/O fibres are included.

Ordering Information

	Input Connector		Output Connector		Fibre Type		Wavelength		Configuration Type		Package Style		Cable Type		Input Lead Length		Output Lead Length	
	x	None	x	None	9	G.652D	1	Broadband 1260-1650nm	102	1x2	1	Case Ribbon	0	250µm	1	1 metre	1	1 metre
OS1	0	LC	0	LC	A1	G.657A1	2	1310nm / 1550nm	104	1x4	2	Fan-out unit	1	900µm	1.5	1.5 metre	1.5	1.5 metre
	1	LCA	1	LCA	A2	G.657A2	3	1310 / 1490 / 1550nm	108	1x8	3	2&3mm module	2	2mm cable	2	2 metre	2	2 metre
	2	SC	2	SC					116	1x16			3	3mm cable	2.5	2.5 metre	2.5	2.5 metre
	3	SCA	3	SCA					132	1x32					3	3 metre	3	3 metre
	4	ST	4	ST					164	1x64					10	10 metres	10	10 metres
	5	FC	5	FC					202	2x2				
	6	FCA	6	FCA					204	2x4					xx	Specify	xx	Specify
	7	E2	7	E2					208	2x8								
	8	E2A	8	E2A					216	2x16								
									232	2x32								
									264	2x64								
									264	2x64								

*Splitters requiring 2mm & 3mm cable will be supplied in a plastic module with flying pigtails. Other lengths available on request.

Example order code

OS1	-	33	A11	132	1	1	1	1
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PLC 1X32 Case Ribbon Splitter 1260/1650nm - 900µm Unterminated 1mtr Tails

Always here when you need us.

Challenges this big need a global partner capable of scaling designs and delivering consistent quality on budget.

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