



1XN BALANCED OPTICAL SPLITTER TELCORDIA



Description Optical splitters are passive components applied for optical power division on PON network. They consist of an input fiber and N output fibers, which divide the power of the optical signal proportionally, been characterized as a balanced splitters.
 Mainly used in optical networks FTTx / PON networks and HFC (Cable TV).
 Available in three models:
 - Input and Outputs with connectors.
 - Connectors only on output ports;
 - Input and Outputs without connectors.

Compatibility Splice Trays or Connectorized Modules.

Fiber Type Input and output fibers: "Bend Loss Insensitive" G.657A (2) - Single Mode

Standard

- Telcordia GR-1209 (Generic Requirements for Passive Optical Components)
- Telcordia GR-1221 (Reliability Requirements for Passive Optical Components)
- IEC 61753-1 (Fibre Optic Interconnecting Devices and Passive Components Performance Standard)

Certifications Anatel (Homologation 01837-11-00256 and 01835-11-00256)

Included Accessories Individual test report (Insertion Loss and Return Loss measures⁽¹⁾)

Warranty 12 months

Performance	Models	1x2	1x4	1x8	1x16	1x32	1x64
Optical Bandpass		PLC: 1260~1650 FBT:1260~1360nm and 1480~1650nm					
Maximum InsertionLoss (dB)		3,7	7,1	10,5	13,7	17,1	20,5
Uniformity (dB)		0,5	0,6	1	1,3	1,5	1,7
Maximum Polarization Dependent Loss (Max. PDL)		0,2	0,2	0,25	0,3	0,4	0,5
Directivity (dB)		>55					
ReturnLoss (dB)		>55					

Dimensional Characteristics //===== WITH CONNECTOR:

Models	1x2 FBT		1x2 PLC		1x4		1x8	
Connectorization	I/O	O	I/O	O	I/O	O	I/O	O

Depth	50mm		55mm		55mm		55mm	
Diameter	3.0mm		N/A		N/A		N/A	
Width	N/A		7mm		7mm		7mm	
Height	N/A		4mm		4mm		4mm	
Length of Input fiber	1.5m	0.6m	1.5m	0.6m	1.5m	0.6m	1.5m	0.6m
Length of output fiber	0.6m	0.6m	0.6m	0.6m	0.6m	0.6m	0.6m	0.6m
Pigtail diameter	900µm ou 2mm							

Models	1x8 Compacto		1x16		1x32	
Connectorization	O		I/O	O	I/O	O
Depth	90mm		60mm		80mm	
Diameter	N/A		N/A		N/A	
Width	20mm		12mm		20mm	
Height	10mm		4mm		6mm	
Length of Input fiber	2.0m		1.5m	0.6m	1.5m	0.6m
Length of output fiber	0.7 or 0.9m		0.6m	0.6m	0.6m	0.6m
Pigtail diameter	900µm or 2mm					

- O - Output connectorized splitter;
- I/O - Input and Output connectorized splitter.

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WITHOUT CONNECTOR:

Models	1x2	1x4	1x8	1x16	1x32	1x64
Depth	50mm	40mm	40mm	40mm	50mm	60mm
Diameter	3mm	N/A	N/A	N/A	N/A	N/A
Width	N/A	4mm	4mm	4mm	7mm	12mm
Height	N/A	4mm	4mm	4mm	4mm	4mm
Fiber Length	2m					
Fiber Diameter	250µm					

Color code

Port 1	Blue
Port 2	Orange
Port 3	Green
Port 4	Brown
Port 5	Gray
Port 6	White
Port 7	Purple
Port 8	Black

- For 1x16, 1x32 and 1x64 splitters, the group of colors will be repeated every 8 ports, each of them separated and identified by colored plastic tapes;
- The color code applies to splitters without connectors;
- Connectorized Splitters ports are identified by plastic rings with numbers.

Environmental specification	Splitter type	1x2	1x4	1x8	1x16	1x32	1x64
	Operating temperature	-40~+85°C			-25~+70°C		
	Storage temperature	-40~+85°C					
	Operating relative humidity	5~95%					
	Storage relative humidity	5~95%					

Indoor or Outdoor ready (in a suitable box).

Note

- 1- *Measurements considering splitters without connectors;*
- 2- *"Bend Loss Insensitive" G.657A fibers are fully compatible with G.652 fibers.*

[Part Numbers](#)