



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	Parameter	1x2	1x4	1x8	1x16	1x32	1x64
	Optical Bandpass	PLC: 1260~1650 FBT:1260~1360nm and 1480~1650nm					
	Maximum Insertion Loss (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 (PDL)	0,2	0,2	0,25	0,3	0,4	0,5
	Directivity (dB)	>55					
	ReturnLoss (dB)	>55					

* without connector loss. Add 0.3dB for connectorized splitters.

Application Indoor or Outdoor ready (in a suitable box).

Dimensional Characteristics **SPLITTER WITH CONNECTOR:**

Parameter	1x2 50/50 FBT		1x2 PLC		1x4		1x8	
Model	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	
Input fiber length	1.5m	0.6m	1.5m	0.6m	1.5m	0.6m	1.5m	0.6m
Output fiber length	0.6m	0.6m	0.6m	0.6m	0.6m	0.6m	0.6m	0.6m
Fiber diameter	900µm or 2mm							

FBT splitter only with fiber diameter of 900µm.

Parameter	1x8 Compacto	1x16		1x32	
Model	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	
Input fiber length	2.0m	1.5m	0.6m	1.5m	0.6m
Output fiber length	0.7 or 0.9m	0.6m	0.6m	0.6m	0.6m
Fiber Diameter	900µm or 2mm				

O - Output connectorized splitter;

I/O - Input and Output connectorized splitter.

SPLITTER WITHOUT CONNECTOR:

Parameter	1x2 50/50 FBT	1x2 PLC	1x4	1x8	1x16	1x32	1x64
Depth	50mm	40mm	40mm	40mm	40mm	50mm	60mm
Diameter	3mm	N/A	N/A	N/A	N/A	N/A	N/A
Width	N/A	4mm	4mm	4mm	4mm	7mm	12mm
Height	N/A	4mm	4mm	4mm	4mm	4mm	4mm
Fiber Length (I/O)	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	Red
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 above applies to splitters without connectors with 250µm fibers.

- Connectorized Splitters ports are identified by plastic rings with numbers. (Outer diameter of 2mm in yellow color and 0.9mm in white color)

Environmental specification	Parameter	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%					

Note

- 1- Losses considering splitters without connectors; Add 0.3dB for splitters with connectors
- 2- "Bend Loss Insensitive" G.657A fibers are fully compatible with G.652 fibers.

[Part Numbers](#)