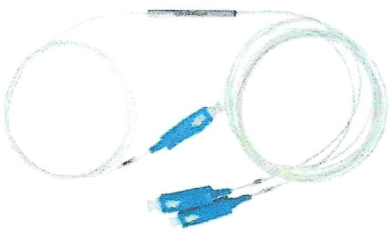
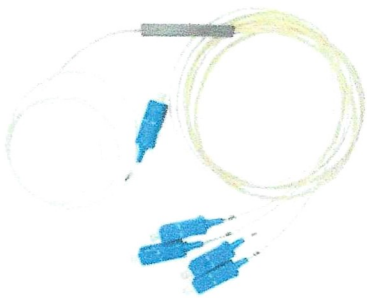
Blockless PLC Splitter

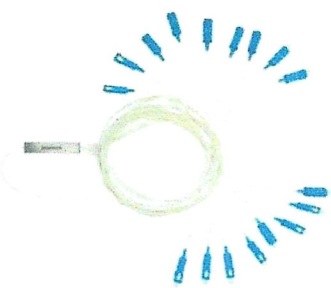


Pic 1: 1:2 SC/UPC

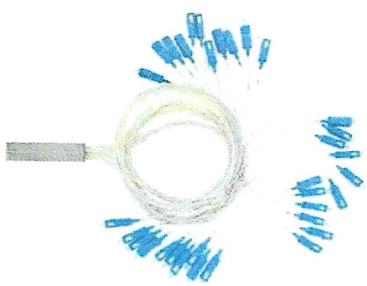


Pic 2: 1:4 SC/UPC

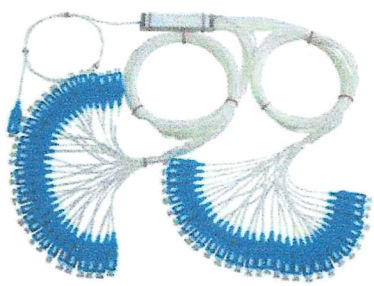
Pic 3: 1:8 SC/UPC



Pic 4 1:16 SC/UPC



Pic 5: 1:32 SC/UPC



Pic 6: 1:64 SC/UPC

SC/APC is also available for above items

Fiber Optic PLC Splitter is an essential passive component in Fiber to the Home network.
The full name of PLC Splitter is Planar Lightwave Circuit Splitter. It adopts silica optical waveguide technology and is used for optical power allocation from central office to customer premises in FTTx and FTTH networks.
Blockless PLC Splitters packaged in a stainless steel module is with standard 900um loose tube cable. Blockless PLC Splitters as passive optical splitters are widely used for FTTH Passive Optical Network, including EPON (as EPON Splitter and GPON (as GPON Splitter) .

Features:

- Uniform power splitting

- Compact package dimension
- Low polarization dependent loss
- Good channel-to-channel uniformity
- Low Insertion Loss and high Return Loss
- Environmentally and mechanically stable
- Wide operating wavelength range from 1260nm to 1650nm

Applications:

- Telecommunication networks
- PON (Passive Optical Network)
- FTTX, FTTH (Fiber to the Home)

Standards:

- Telcordia GR-1209 and GR-1221
- ITU-T G.652.D/G.657.A1/G.657.A2/G.657.B2
- IEC 60793-2

Specifications:

Table 1: Performance for 1×N PLC Splitter

Note: All measurements are done at room temperature with connectors.

Port Configuration		1×2	1×4	1×8	1×16	1×32	1×64
Operating Wavelength (nm)		1260~1650					
Insertion Loss (dB)		3.9	7.0	10.3	13.5	16.6	20.0
Loss Uniformity (dB)		0.6	0.6	0.8	1.2	1.5	2.5
Return Loss (dB)		55	55	55	55	55	55
PDL (dB)	Typ.	0.1	0.1	0.1	0.1	0.2	0.2
	Max.	0.2	0.2	0.3	0.3	0.3	0.4
Directivity (dB)		55	55	55	55	55	55
Fiber Length (m)		1.0 or customized					
Optic Type		G657A1/G657A2 (standard) or as per customized					
Fiber Original		YOFC Easy Bend or Corning SMF-28e or customized					
Wavelength Dependent Loss (dB)	Typ.	0.2	0.2	0.2	0.3	0.3	0.3
	Max.	0.3	0.3	0.3	0.5	0.5	0.5
Temperature Stability (-40~+85°C) (dB)	Typ.	0.3	0.3	0.3	0.4	0.4	0.4
	Max.	0.5	0.5	0.5	0.5	0.5	0.5
Operating Temperature (°C)		-40~+85°C					
Storage Temperature (°C)		-40~+85°C					

Package Dimensions:

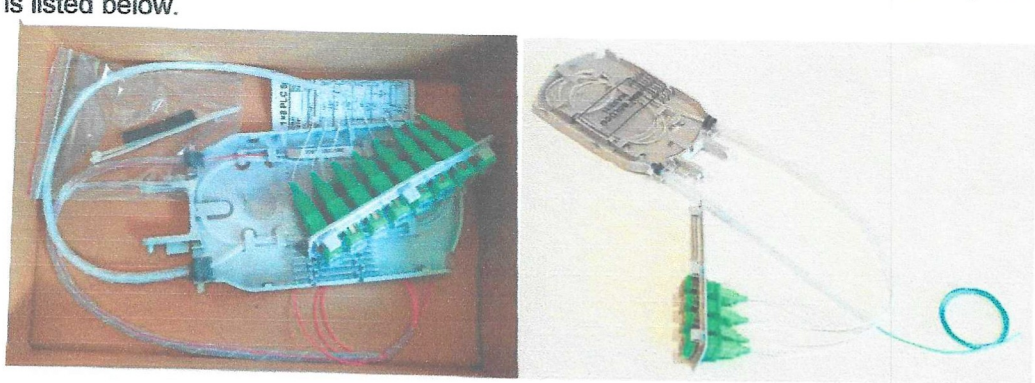
Size L×W×H (mm)	Port					
60×4×7	1×2	2×2	1×4	2×4	1×8	2×8

60×4×12	1×16	2×16
80×6×20	1×32	2×32
100×6×40	1×64	2×64

Ordering Information:

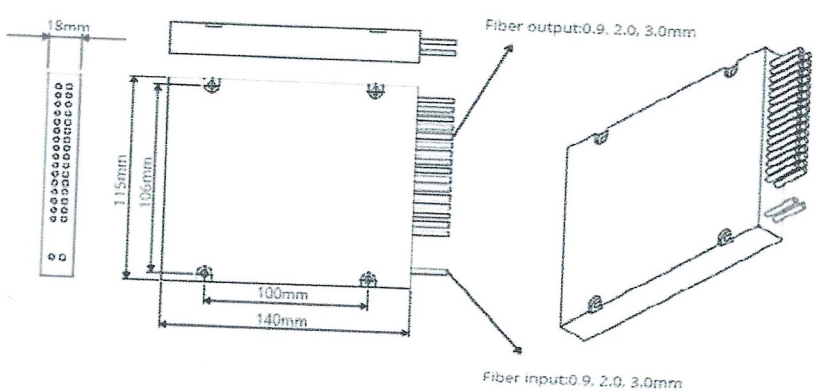
Brand	LW
Name	PLC: PLC Splitter
Package	B: blockless
Port	12: 1×2 14: 1×4 18: 1×8 116: 1×16 132: 1×32 164: 1×64 22: 2×2 24: 2×4 28: 2×8 216: 2×16 232: 2×32 264: 2×64
Cable Length	0.5: 0.5m 1: 1m 1.5: 1.5m 2: 2m; etc
Connector	SU: SC/UPC SA: SC/APC FU: FC/UPC FA: FC/APC LU: LC/UPC LA: LC/APC None=without connectors

According to Türksat's RFQ 2025 YEAR FTTH OPTICAL DIVIDED RECRUITMENT HEAT, Packing reference is listed below.



Plastic Box PLC Splitter

ABS PLC Splitter



Mechanical

This is a drawing of our 1x32 ABS PLC Splitter. Dimension:
140(L) x 115(W) x 18(H) mm

Fiber Optic PLC Splitter is an essential passive component in Fiber to the Home network.
The full name of PLC Splitter is Planar Lightwave Circuit Splitter. It adopts silica optical waveguide technology and is used for optical power allocation from central office to customer premises in FTTx and FTTH networks.
PLC Splitter offers a cost effective and space saving networking solution in optical transmission system.

Plastic Box PLC Splitters packaged in a ABS box is with standard 2.0mm or 3.0mm fiber cable. Plastic Box PLC Splitters as passive optical splitters are widely used for FTTH Passive Optical Network, including EPON (as EPON Splitter) and GPON (as GPON Splitter) .

PLC Splitters are available in a variety of port configurations, including 1×2 splitter, 1×4 splitter, 1×8 splitter, 1×16 splitter,

1×32 splitter, 1×64 splitter, etc.

Features:

- Uniform power splitting
- Compact package dimension
- Low polarization dependent loss
- Good channel-to-channel uniformity
- Low Insertion Loss and high Return Loss
- Environmentally and mechanically stable
- Wide operating wavelength range from 1260nm to 1650nm

Applications:

- Telecommunication networks
- PON (Passive Optical Network)
- FTTX, FTTH (Fiber to the Home)

Standards:

- Telcordia GR-1209 and GR-1221
- ITU-T G.652.D/G.657.A1/G.657.A2/G.657.B2
- IEC 60793-2

Specifications:

Table 1: Performance for 1×N PLC Splitter

Note: All measurements are done at room temperature with connectors.

Port Configuration		1×2	1×4	1×8	1×16	1×32	1×64
Operating Wavelength (nm)		1260~1650					
Insertion Loss (dB)		3.9	7.0	10.3	13.5	16.6	20.0
Loss Uniformity (dB)		0.6	0.6	0.8	1.2	1.5	2.5
Return Loss (dB)		55	55	55	55	55	55
PDL (dB)	Typ.	0.1	0.1	0.1	0.1	0.2	0.2
	Max.	0.2	0.2	0.3	0.3	0.3	0.4
Directivity (dB)		55	55	55	55	55	55
Fiber Length (m)		1.0 or customized					
Fiber Type		YOFC Easy Bend or Corning SMF-28e or customized					
Wavelength Dependent Loss (dB)	Typ.	0.2	0.2	0.2	0.3	0.3	0.3
	Max.	0.3	0.3	0.3	0.5	0.5	0.5
Temperature Stability (-40~+85°C) (dB)	Typ.	0.3	0.3	0.3	0.4	0.4	0.4
	Max.	0.5	0.5	0.5	0.5	0.5	0.5
Operating Temperature (°C)		-40~+85°C					
Storage Temperature (°C)		-40~+85°C					

Package Dimensions:

Size L×W×H (mm)	Port
90x20x10 80x60x12 100x26x10 100x30x6 100x45x10 100x80x10 (default)	1×2/2×2 1×4/2×4 1×8/2×8
100×80×10 120×80×18 (default)	1×16 2×16
120×80×18 142×102×14.5 141×115×18 (default)	1×32 2×32
130x80x29 141×115×18(default)	1×64 2×64

Ordering Information:

Brand	LW
Name	PLC: PLC Splitter
Package	P: plastic box
Port	12: 1×2 14: 1×4 18: 1×8 116: 1×16 132: 1×32 164: 1×64 22: 2×2 24: 2×4 28: 2×8 216: 2×16 232: 2×32 264: 2×64
Cable Diameter	2: 2.0mm 3: 3.0mm
Cable Length	0.5: 0.5m 1: 1m 1.5: 1.5m 2: 2m; etc
Connector	SU: SC/UPC SA: SC/APC FU: FC/UPC FA: FC/APC

	LU: LC/UPC LA: LC/APC None=without connectors

According to Türksat' s RFQ 2025 YEAR FTTH OPTICAL DIVIDED RECRUITMENT HEAT, Packing reference is listed below.

AIDATA BİLİŞİM KURUMSAL TİC.VE SAN. A.Ş.
Kirazlıdere Mah. Kışla Cad. No:52
Çekmeköy/İSTANBUL Tic.S.No:404423
Boğaziçi Kurumlar V.D.: 010 029 8085
Mersis No: 0010 0298 0850 0014