PRODUCT DATA SHEET

The PLC splitter is an optical power distribution device based on the integrated waveguide of quartz plate. It has the characteristics of small size, wide working wavelength range, stable reliability and good uniformity. It is widely used in PON, ODN, and FTTX points to connect between terminal equipment and central office to achieve a signal splitter.

Nitrotel's Mini steel tube PLC Splitter family has 1x2, 1x4, 1x8, 1x16, 1x32, 2x2, 2x4, 2x8, 2x16 and 2x32, which are tailored to different applications and markets. It has compact size with wide bandwidth. All products meets ROHS, GR-1209-CORE-2001 and GR-1221-CORE-1999.

Specification (without connector)

Parameter	Unit	Specification (P Grade)										
Operation Wavelength	nm	1260～1650										
Channel Number		1X2	1x3	1X4	1x6	1X8	1x12	1X16	1x24	1X32	1X64	1x128
Insertion Loss(Max)	dB	4.3	6.2	7.2	9.8	10.5	12.5	13.6	16.5	17.2	21.0	25.5
Uniformity (Max.)	dB	0.5	0.6	0. 6	0.8	1.0	1.0	1.4	1.5	1.6	2.0	2.5
Polarization Dependent Loss	dB	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.8
Return Loss	dB	≥55										
Directivity	dB	≥55										

Parameter	Unit	Specification (P Grade)						
Operation Wavelength	nm	1260～1650						
Channel Number		2X2	2X4	2X8	2X16	2X32	2X64	2x128
Insertion Loss (Max.)	dB	4.5	7.5	11.2	14.6	17.5	21.5	25.8
Uniformity (Max.)	dB	0.8	1.0	1.2	1.5	1.8	2.5	3.0
Polarization Dependent Loss	dB	0.2	0.3	0.3	0.3	0.3	0.5	1.0
Return Loss	dB	≥55/50						
Directivity	dB	≥55						

Note: UPC Connectors: IL add 0.2 dB, APC Connectors: IL add 0.3 dB.

Environmental Conditions

Operating Temperature	℃	-40～+85
Storage Temperature	℃	-40～+85
Operating Humidity	%RH	≤93
Storage Humidity	%RH	≤93

RoHS compliant · ETL Listed · ISO 14001 · ISO 9001 · CE

Package Dimension (mm)

A1	40x4x4 steel tube	A12	55x7x4 steel tube
A2	45x4x4 steel tube	D	90x20x9.5 Plastic box
A3	45x4.5x4 steel tube	E	100x80x10 Plastic box
A4	50x7x4 steel tube	F	141x115x18 Plastic box
A5	60x7x4 steel tube	K	120x80x18 Plastic box
A6	60x12x4 steel tube	U	1/2/3/4 U 19" rack
A7	65x7x4 steel tube	G	1/2/3/4 G LGX' Aluminum rack
A8	80x12x4 steel tube	C	4/8/16/32/64 CH Cassette
A9	80x20x6 steel tube	T	4/8/16/32/64 CH Pallet
A10	90x20x6 steel tube	R	Splice Tray (customized dimension)
A11	80x20x6 steel tube	X	Custom Specifies

Packaging Information

Product Type	1×2	2×2	1×3	1×4	2×4	1×6	1×8 (127)	1×8 (250)	2×8
Ribbon Fiber	A1	/	A1	A3	/	A1	A3		
Φ 0.9 steel tube	A3	A5							
Φ 0.9 plastic case	D	E							
Φ 2.0 plastic case	D	E							
Φ 3.0 plastic case	D	E							
Rack Mount	1U/2U/3U/4U								
Product Type	1×12	1×16	2×16	1×24	1×32	2×32	1×64	2×64	
Ribbon Fiber	A3		A5		A4		A7	A6	
Φ 0.9 steel tube	A6		A8		A9		A10	A11	
Φ 0.9 plastic case	K						F		
Φ 2.0 plastic case	K						F		
Φ 3.0 plastic case	K						/		
Rack Mount	1U/2U/3U/4U								

Package Drawing (mm)
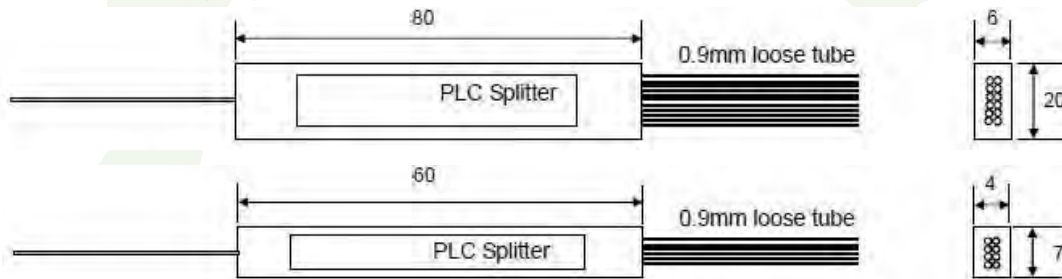
Package and shipping (1x4-0.9-1M-SC/APC as a reference)

- 1 pcs in 1 plastic box
- 300 plastic box in carton box
  Size: 45*35*25cm   Weight: 9kg
- OEM Service available for mass quantity, can print your logo on bags

Weight : 28g

Size: 45*35*25cm
Weight : 9kg

RoHS compliant   ETL   ISO 14001   ISO 9001   CE