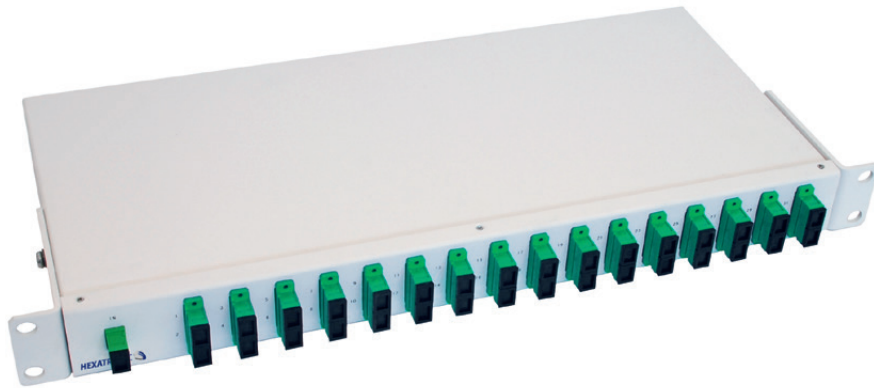


Fiber Optic Splitter Shelf – NCD 520 002

2 to 64 Ports Rack Mountable Splitters



Features

- 1x2 to 1x64 standard configurations
- 2x2 to 2x64 for redundancy and monitoring
- Broadband wavelength operation
- Low insertion loss
- Low back reflection
- Low PDL (Polarization Dependent Loss)
- Low WDL (Wavelength Dependent Loss)
- Low TDL (Temperature Dependent Loss)
- High output uniformity
- Stable optical performance
- Conforms to Telcordia, ITU and IEC standard
- 1U, 19" and ETSI rack mountable

Application

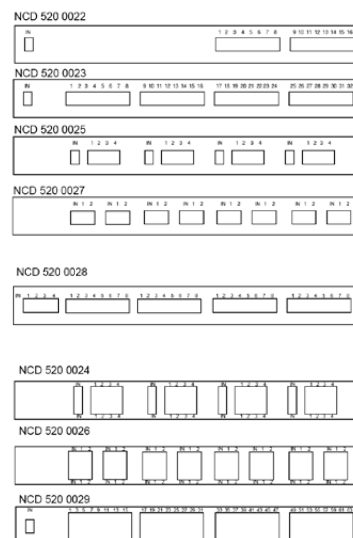
The splitter shelf comprises of a metal chassis for 19" rack mounting and fiber optic splitter devices. The optical splitters provide uniform division of an optical signal from one or two input fiber ports to multiple output ports.

The splitters are design to meet the requirements for a wide range of fiber optic communications systems. The broadband performance makes them especially suitable for PON FTTx networks. Low loss under extreme environmental conditions ensures stable operation. Thermally stable and compact design allows these shelves to be installed into central office (CO) racks as well as in outside plant Fiber Distribution Hubs (FDH).

Description

Configurations from 1x4 to 2x64 use Planar Lightwave Circuit (PLC) splitters. 1x2 configurations are based on Fused Biconic Tapers (FBT). All components have thermally stable broadband performance.

The splitter shelf is available in two performance grades; standard grade and high grade. Standard grade is suitable for most applications. High grade is used when a wider operating wavelength, lower insertion loss and better uniformity is required. Both performance grades are available in configurations with multiples of splitters from 1x2 to 1x64, see ordering information. Standard connector option is SC/APC. Front panel configuration examples are shown below.





Fiber Optic Splitter Shelf – NCD 520 002

Specifications

Optical properties, standard grade

Operating Wavelength
 1x4-1x64: 1260 ~ 1360, 1450 ~ 1625nm
 1x2: 1260 ~ 1360, 1480 ~ 1580nm
 Directivity.....>55dB
 Return Loss>55dB
 Max input power500mW
 Max attenuationsee ordering info
 Max uniformitysee ordering info
 PDL, 1x2-1x16<0.3dB
 1x32, 1x64.....<0.4dB

Optical properties, high grade

Operating Wavelength
 1x4-1x64: 1260 ~ 1650nm
 1x2: 1260 ~ 1360, 1480 ~ 1580nm
 Directivity.....>55dB
 Return Loss>55dB
 Max input power500mW
 Max attenuationsee ordering info
 Max uniformitysee ordering info
 PDL<0.2dB

Connector performance SC/APC

Typical/Max attenuation.....≤0.15dB/≤0.30dB
 Return Loss>60dB

Temperature and humidity

Operation.....-40 to +70°C
 Transport and storage-40 to +70°C
 Storage rel. humidity 20-95 (%RH)

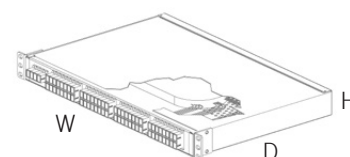
Dimensions

19" and ETSI, 1U rack mountable unit
 WxDxH 410x195x44 mm

Conformances

ITU-T G.652 D
 ITU G.671 **
 Telcordia GR-1209
 Telcordia GR-1221
 IEC 67153-031-3/-6
 IEC 61754-4
 IEC 61754-6
 IEC 61754-20
 RoHS Directive

** High Grade option



Ordering Information

High Grade SC / APC

PRODUCT NUMBER	NO OF SPLITTERS X [SPLIT RATIO]	INSERTION LOSS* (MAX) DB	UNIFORMITY (MAX) DB
1/NCD 520 0022/10	1 x [1x16]	14.4	1.0
1/NCD 520 0023/10	1 x [1x32]	17.7	1.3
1/NCD 520 0024/10	8x [1x4]	7.8	0.6
1/NCD 520 0025/10	4x [1x4]	7.8	0.6
1/NCD 520 0026/10	16x [1x2]	4.2	0.6
1/NCD 520 0027/10	8x [1x2]	4.2	0.6
1/NCD 520 0028/10	4x [1x8]	11.1	1.0
1/NCD 520 0029/10	1 x [1x64]	21.1	2.0

High Grade SC / UPC

PRODUCT NUMBER	NO OF SPLITTERS X [SPLIT RATIO]	INSERTION LOSS* (MAX) DB	UNIFORMITY (MAX) DB
1/NCD 520 0022/11	1 x [1x16]	14.4	1.0
1/NCD 520 0023/11	1 x [1x32]	17.7	1.3
1/NCD 520 0024/11	8x [1x4]	7.8	0.6
1/NCD 520 0025/11	4x [1x4]	7.8	0.6
1/NCD 520 0026/11	16x [1x2]	4.2	0.6
1/NCD 520 0027/11	8x [1x2]	4.2	0.6
1/NCD 520 0028/11	4x [1x8]	11.1	1.0
1/NCD 520 0029/11	1 x [1x64]	21.1	2.0

Standard Grade SC / APC

PRODUCT NUMBER	NO OF SPLITTERS X [SPLIT RATIO]	INSERTION LOSS* (MAX) DB	UNIFORMITY (MAX) DB
NCD 520 0022/10	1 x [1x16]	14.8	1.5
NCD 520 0023/10	1 x [1x32]	18.0	1.7
NCD 520 0024/10	8x [1x4]	8.2	0.8
NCD 520 0025/10	4x [1x4]	8.2	0.8
NCD 520 0026/10	16x [1x2]	4.6	0.8
NCD 520 0027/10	8x [1x2]	4.6	0.8
NCD 520 0028/10	4x [1x8]	11.6	1.0
NCD 520 0029/10	1 x [1x64]	21.6	2.5
NCD 520 0042/10	1 x [2x16]	15.3	1.5
NCD 520 0043/10	1 x [2x32]	18.5	1.8
NCD 520 0044/10	8x [2x4]	8,4	1.0
NCD 520 0045/10	4x [2x4]	8,4	1.0
NCD 520 0046/10	16x [2x2]	4.6	1.0
NCD 520 0047/10	8x [2x2]	4.6	1.0
NCD 520 0048/10	4x [2x8]	11.8	1.0
NCD 520 0049/10	1 x [2x64]	22.3	2.5

The optical properties refer to maximum values, valid for the specified operating wavelength band including PDL, WDL, and TDL.

The maximum connector attenuation is included in the total insertion loss of the splitter unit.