Type:	xWDM multiplexers family	13.10.2020
		REV: 1.1
		MP
Reference:	PZXW-, see system ref.	

FIBRAIN®
Fiber Optic Solutions

Passive Optical Networks

xWDM/xPON CEx series multiplexers

INTRODUCTION:

xWDM/xPON multiplexers can be applied in expanding an existing PON network to new services or protocols. xWDM/xPON solutions family consists of devices compliant with the ITU-T G.984.5 recommendation as well as dedicated solutions adapted to the Customer's needs. High quality components ensure very high operation stability of xWDM/xPON multiplexers in the whole spectral range and perfect thermal stability. xWDM/xPON multiplexers are available both in a version without connectors (intended for splicing) and with any connector type.

APPLICATIONS:

WDM systems
FTTH access networks
Cable networks and HFC
Other optical telecommunication networks

FEATURES AND ADVANTAGES:

High thermal stability of parameters
Low insertion and polarization losses
High interchannel isolation
Available with any type of fiber optic connectors
Available non-standard solutions with specialized functionalities

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1

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TECHNICAL SPECIFICATIONS:

Insertion loss and isolation:

Multiplexer[1]	Protocol/service	Spectral range	Max. insertion loss[2]	Isolation
CEx.1	GPON	1290-1330 nm 1480-1500 nm	0.7 dB	≥ 25 dB
	XG-PON1	1260-1280 nm 1575-1581 nm	1.2 dB	≥ 25 dB
	NG-PON2	1524-1544 nm 1596-1625 nm	1.1 dB	≥ 16 dB
CEx.3	GPON	1290-1330 nm 1480-1500 nm	0.7 dB	≥ 25 dB
	VIDEO	1550-1560 nm	1.8 dB	≥ 16 dB
	NG-PON2	1524-1544 nm 1596-1625 nm	2.0 dB	≥ 25 dB

[1] Nomenclature according to ITU-T G.984.5 recommendation
[2] Additional insertion losses in the case of multiplexers with connectors: +0.4 dB

Other parameters:

Parameter	Unit	Value
PDL	dB	≤0.1
Directivity	dB	≥55
RL	dB	≥50
Max. input power	mW	500
Temp. operating range	^{0}C	0/+70
Temp. storage range	^{0}C	-40/+85
Fiber type	-	G.652.D

ORDERING INFORMATION:

Series	Series	Fber type	Monitoring port	Multiplexer type	Number of multiplexers	Housing type	Connector in	Connectors out
PZXW	G0	1 - G.652D	0 – no port	CEx.1	01-1	1 - 19'', 1U	ST	ST
		2 - G657A1	1 - monitor 1% standard uni-di	CEx.3	02-2	2 - 19'', 2U	SC	SC
		3 - G657A2	2 - monitor 1% standard bi-di			3 - LGX1	SCA	SCA
		4 - G655	3 - monitor 5% standard uni-di			4 - LGX2	FC	FC
			4 - monitor 5% standard bi-di			5 - LGX3	FCA	FCA
			5 - monitor 5% flat uni-di				LC	LC
			6 - monitor 5% flat bi-di				LCA	LCA
							E20	E20
							E2A	E2A

Example reference: PZXW-G0-1-0-CEx.1-01-1-SCA-SCA – One CEx.1 multiplexer in PZXW patch panel of height 1U, PREMIUM quality, G.652.D fiber, without power monitoring channel, SCA connectors