



WaveReady® Single-Channel CWDM Add/Drop Splice Tray Cassette

MDFT01ADCBxx0

WaveReady coarse wavelength division multiplexing (CWDM) optical add/drop module (OADM) splice packs are part of a family of flexible, low-cost solutions that expand the capacity of existing fiber.

Through the use of CWDM technology, individual channels can be optically added or dropped from a fiber pair while allowing pass-through traffic to continue through the bus or ring.

CWDM OADM bidirectional splice packs provide both east and west add/drop functionality and are readily deployed in existing outside plant splice enclosures in combination with WaveReady CWDM multiplexing/demultiplexing products at the headend. They provide ample room for fiber management and splice holders.

CWDM OADM bidirectional splice packs interoperate with both the WaveReady transponders and optical regenerator solutions as well as widely-used ITU G.694.2-compliant small form-factor pluggable (SFP) transceivers and transponder cards.

With countless hours of continual field operation, industry-leading JDSU optical multiplexing technology offers unparalleled reliability and leading-edge performance.

Benefits

- Add/drop ITU-T G.695- and G.694.2-compatible CWDM channels onto a fiber pair
- Deploy in outside-plant fiber splice enclosures
- Provides low-loss pass-through for CWDM channels
- Power monitoring with passive optical tap port at each common fiber output
- No electrical power required for thermally stable passive optics

Applications

- Conserve or reclaim fiber for wireless backhaul, broadband, and other services
- Supports linear (bus) and ring add/drop architectures

Compliance

- Telcordia GR-63 (NEBS)
- Telcordia GR-1221
- ITU-T G.694.2 and G.695

Specifications

Optical Performance

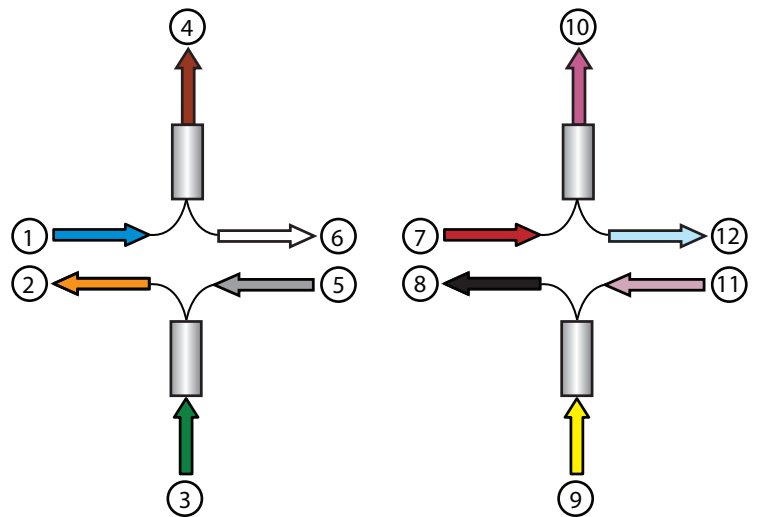
Parameters are specified for the whole passband over all polarization states and operating temperature range unless stated otherwise.

Parameters ¹	Condition	Minimum	Maximum	Units
Free spectral range		1260	1640	nm
Operating channels		ITU channel number 47, 49, 51, 53, 55, 57, 59, or 61		
Working bandwidth at -0.5 dB	λ_{ITU}	$\lambda_c \pm 6.5$	N/A	nm
CWDM add/drop insertion loss	Over channel BW	N/A	1.2	dB
Express loss ²	Over express BW (λ_{ex})	N/A	0.9	dB
Isolation: CWDM drop channel	Adjacent CWDM channels	30	N/A	dB
Isolation: CWDM drop channel	Non-adjacent channels	45	N/A	dB
Isolation: CWDM express channel	Over channel BW, THRU IN to COM OUT or COM IN to THRU OUT	12.5	N/A	dB
Return loss	All ports	45	N/A	dB
PDL	All channels	N/A	0.2	dB
Operating temperature range		-40	85	°C
Storage temperature range		-40	85	°C

1. Specifications for east-facing (ports 1-6) and west-facing (ports 1-7) parts are identical.

2. Excluding connector loss.

Port	Port Description	Pigtail Color
PORT 1	W COM IN	Blue
PORT 2	W COM OUT	Orange
PORT 3	W CH xx ADD	Green
PORT 4	W CH xx DROP	Brown
PORT 5	W THRU IN	Slate
PORT 6	W THRU OUT	White
PORT 7	E COM IN	Red
PORT 8	E COM OUT	Black
PORT 9	E CH xx ADD	Yellow
PORT 10	E CH xx DROP	Violet
PORT 11	E THRU IN	Rose
PORT 12	E THRU OUT	Aqua



Splice ports

Mechanical and Environmental

Parameter	Detail	Value	Units
Dimensions	Tyco A/B tray cassette	0.53 x 3.85 x 9.25	inch
Fiber type		SMF-28 or equivalent	
Fiber pigtail length	5.8 mm cable	1.0 ± 0.05 (from cassette base to 5.8 mm cable end)	m
	900 μm jacket	1.0 ± 0.05 (5.8 mm cable end to 900 μm fiber end)	m
Optical connector	All ports	None	
Operating temperature range		-40 to 85	°C
Storage temperature range		-40 to 85	°C

Product Information

For more information on WaveReady or other products and their availability, please contact your local JDSU account manager, 1-800-498-JDSU (5378) in North America and +800-5378-JDSU worldwide, or e-mail sales@jdsu.com.

Single-Channel CWDM OADM Splice Tray Cassette

ITU Channel	Part Number
47	MDFT01ADCB470
49	MDFT01ADCB490
51	MDFT01ADCB510
53	MDFT01ADCB530
55	MDFT01ADCB550
57	MDFT01ADCB570
59	MDFT01ADCB590
61	MDFT01ADCB610



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