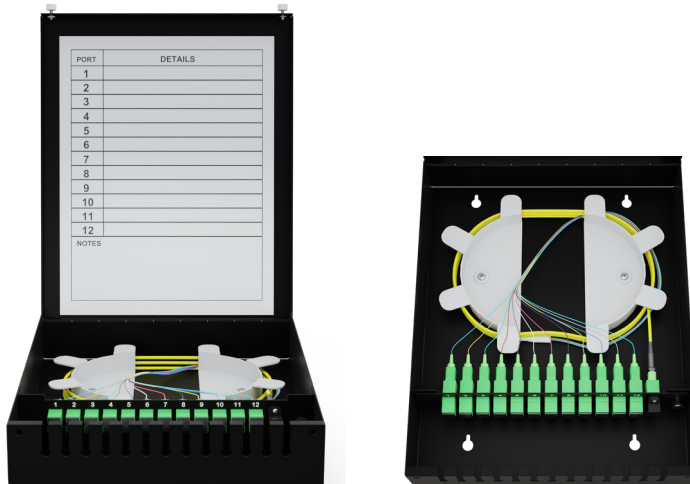


12F MPO to SCA Loaded Wall Mount Enclosure

FEW12MPOSCA



DESCRIPTION

The CERTECH PON RDT (Passive Optical Network Rapid Distribution Terminal) is designed to receive a 12 core single mode MPO incoming feed, distributed to 12 SC APC connectors within a compact and robust metal housing. The CERTECH PON RDT is ready to deploy and allows installers to quickly and easily connect the incoming 12 fibre MPO trunk cable to the 12 SCA premise connection leads. The RDT includes an outlet description label for simple port identification.

FEATURES

- Compact design to allow for installation in tight spaces
- Robust 1.2mm cold rolled steel construction
- Screw in style locking tabs
- Preconfigured for plug and play connectivity reducing installation time
- Outlet Description Label

STANDARDS

- AS/NZS 14763.3:2017
- AS 11801 (1-6)
- AS/CA S008:2020
- IEC 61300 (1-3)
- GR-326-CORE
- GR-1435-CORE
- IEC 61754-4 & IEC 61754-7-1
- IEC 61755-3-1 & IEC 61755-3-31
- IEC 60331
- IEC 60332-1-2 & IEC 60332-3-24

APPLICATIONS

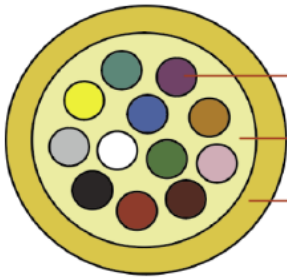
- Houses FTTH and FTTP carrier lead in fibre optic cables and connections
- Facilitates the connection between MPO trunk cables and SCA premises cables in passive optical networks (PON)
- Simplifies connection and routing of optical fibre cables

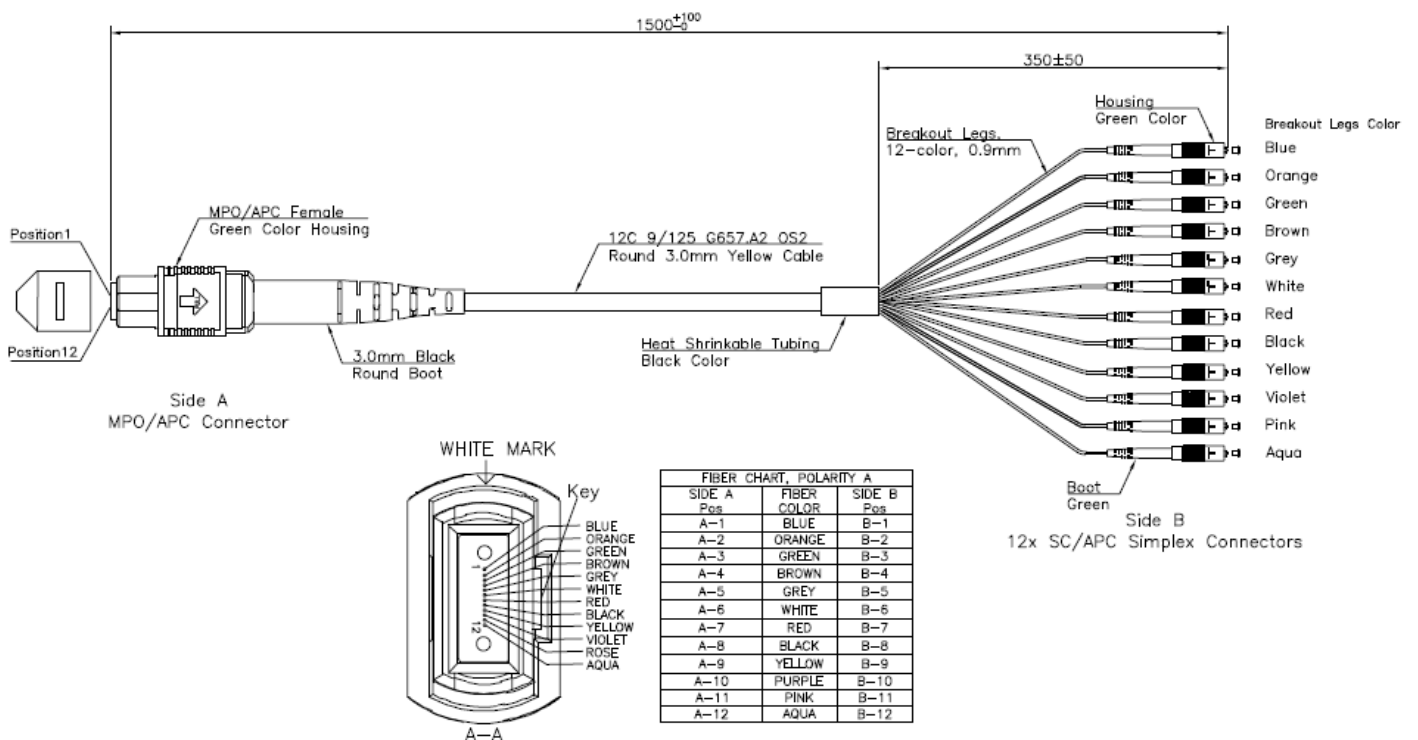
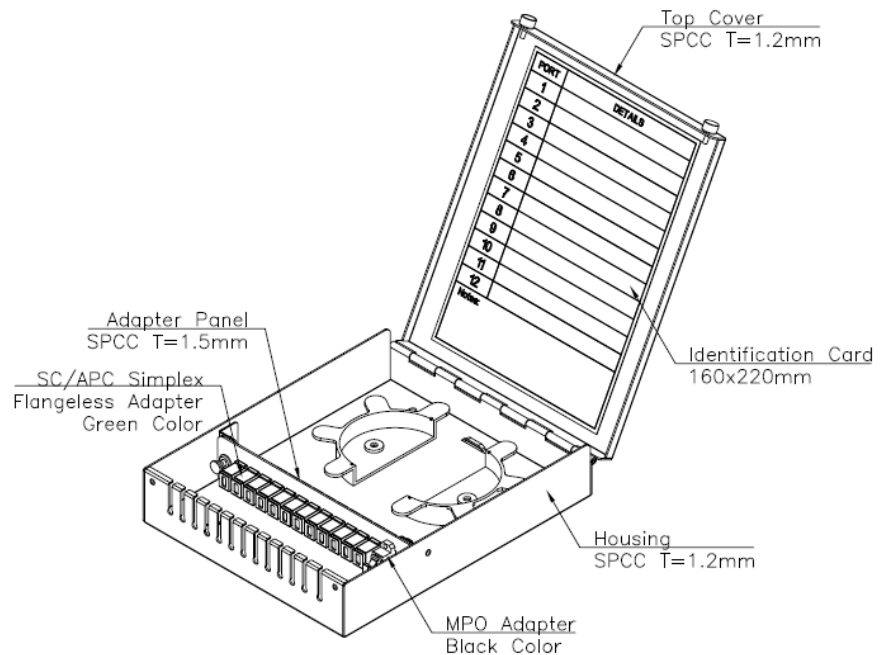
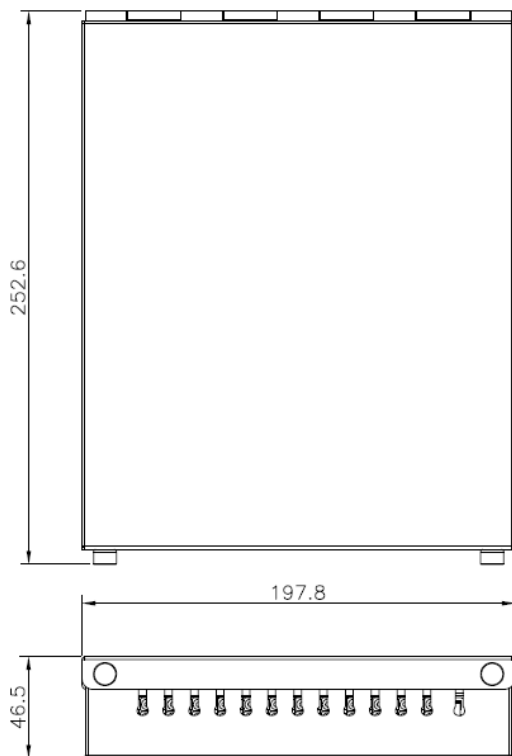
SPECIFICATIONS

MPO-SCA Enclosure Details

Product Dimension (WxDxH)	198.0 x 252.6 x 46.5mm		
Materials:	Top Cover, Cold-Rolled Steel	T=1.2mm	
	Housing, Cold- Rolled Steel	T=1.2mm	
	Adapter Panel, Cold-Rolled Steel	T=1.5mm	
Surface:	Powder Coating Black (RAL9005)		
Enlosure Loaded with:	SCA Simplex Flangeless Adapters, 12Pcs	MPO Adapter Ear Type, 1Pc	12F MPO-SCA Breakout Cable 1.5m, 1Pc
MPO/APC SM Connector Standard Loss:	Green Housing, Black Dust Cap		
SC/APC SM Connectors	Green Housing, Green Boots		
MPO/APC SM Adapter	Black Colour		

Cable Construction Details

Fibre Count	Fibre Type	Outer Sheath	Cable Weight	
12F	SM G657.A2	2.9±0.1mm	8.5kg/km	
Tight Buffer	Material	PVC		
	OD	0.5±0.05mm		
Strength Member	Material	Aramid Yarn		
Outer Sheath	Material	LSZH		
	Flammability Rating	--		
	Colour	Yellow		
	OD	2.9±0.1mm		
Installation Temperature Range (°C)	0~+50			
Operation and Transport Temperature	-20~+60			
Min Bending Radius (mm)	Long term	15D		
Min Bending Radius (mm)	Short term	7.5D		
Tensile Strength (N)	Long term	80		
Tensile Stregnth (N)	Short term	240		
Crush Load (N/100mm)	Long term	500		
Crush Load (N/100mm)	Short term	150		



Standard Colour of Tight Buffer

12 Cores	1	2	3	4	5	6
	Blue	Orange	Green	Brown	Grey	White
	7	8	9	10	11	12
	Red	Black	Yellow	Violet	Pink	Aqua

Fibre Characteristics

Characteristics	Conditions	Specified Values	Unit
Attenuation	1310nm	≤0.4	dB/KM
	1550nm	≤0.3	dB/KM
Attenuation vs. Wavelength Max. adifference	1285-1330nm	≤0.03	dB/KM
	1525-1575nm	≤0.02	dB/KM
Zero dispersion wavelength		1300-1324	nm
Zero dispersion slope		≤0.092	ps√km
PMD		-	
Maximum Individual Fibre		≤0.2	ps√km
Link Design Value (M=20, Q=0.02%)		≤0.1	ps√km
Typical value		0.04	ps√km
Cable cutoff wavelength λ_c		≤1260	nm
Mode field diameter (MFD)	1310nm	8.8±0.4	um
	1550nm	9.8±0.5	um
Effective group index of refraction	1310nm	1.466	-
	1550nm	1.467	-
Point discontinuities	1310nm	≤0.05	dB
	1550nm	≤0.05	dB
Geometrical Characteristics			
Cladding diameter		124.8±0.7	um
Cladding non-circularity		≤0.7	%
Coating diameter		254±5	um
Coating-cladding concentricity error		≤12.0	um
Coating non-circularity		≤6.0	%
Core-cladding concentricity error		≤0.5	um
Curl (radius)		≥4	m

