



FTTX Solutions

Mini Rapid Fiber Distribution Terminal (RDT)

CommScope's FTTX infrastructure solutions are designed from the ground up to meet the unique requirements of FTTX networks. Designed for operational efficiency and scalability, CommScope's FTTX solutions simplify network installation, maintenance and management from the central office/head end, to the mobile switch center, cell site and outside plant.

The Mini Rapid Fiber Distribution Terminal (RDT) is a compact, high-density, fiber box solution, designed to speed installation requirements on the customer premises. Utilizing the patent-pending RapidReel cable payout spool, the Mini RDT deploys up to 100' of plenum and 50' of indoor/outdoor 12-fiber cable. Longer cable lengths available on an external spool. The multifiber cable terminates to a multifiber push-on connector (MPO), which ensures fast cable routing and handling by technicians. For service turn-up, the Mini RDT features up to 12 SC/LC fiber ports for fast, plug-and-play drop cable connections.

The Mini RDT is a cost-efficient system for deploying and managing fiber networks within small to mid-sized multiple dwelling unit (MDU) and multiple tenant unit (MTU) environments.

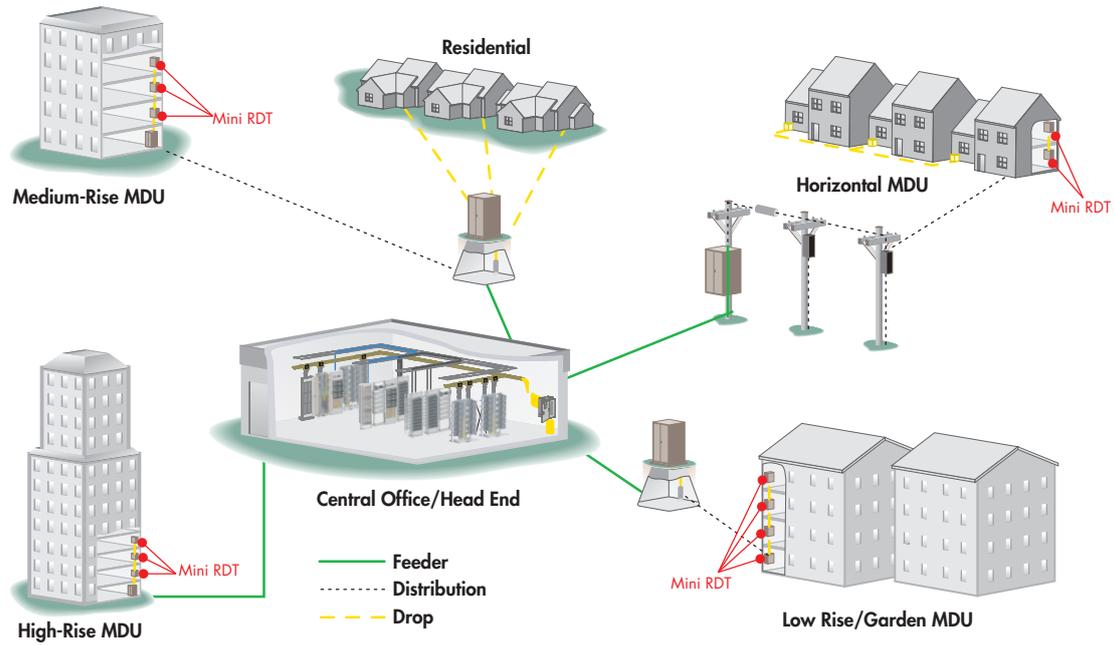
Benefits

- **Cost Savings:** RapidReel cable payout spool reduces upfront deployment costs by eliminating site survey inspections, reducing labor hours and streamlining cable requirements
- **Reduced Labor:** Preconnectorized plug-and-play solution eliminates splice labor requirements and speeds network construction
- **Easy Access:** Technician friendly, the Mini RDT provides easy access to connectors for service and maintenance

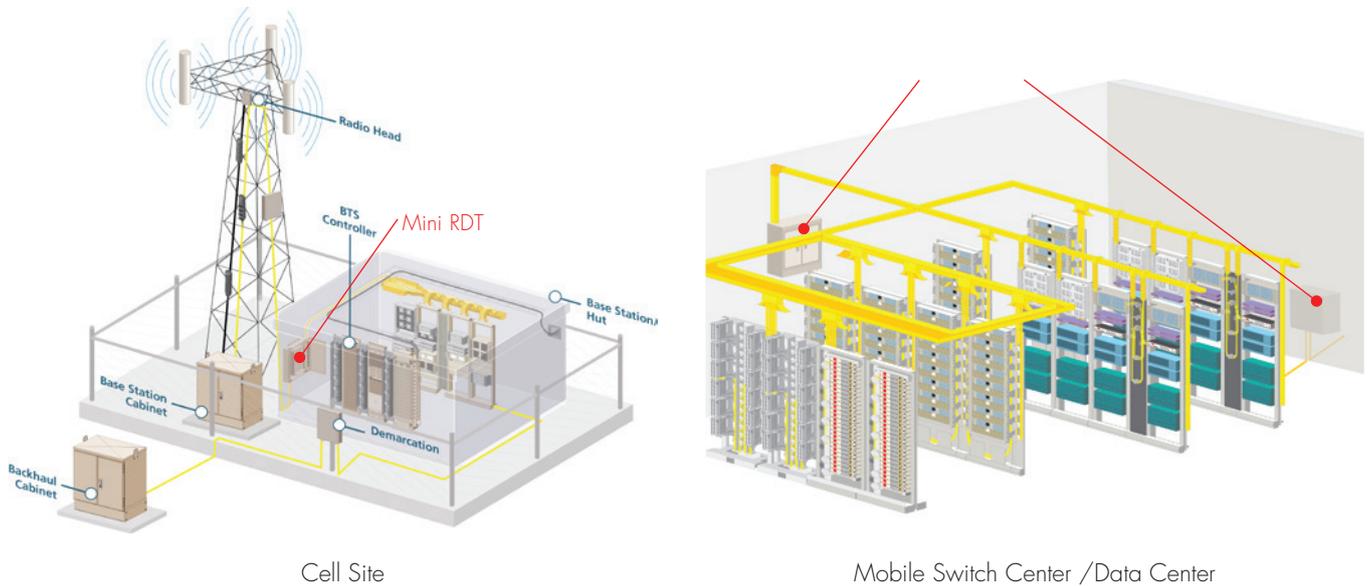
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Typical Fiber-to-the-Premises Application



Typical Wireless Connectivity Application



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Features

- Compact design: 200 x 140 x 60mm
- RapidReel cable payout spool deploys up to 100' (30m) of stubbed cable
- External spool included for plenum cable lengths over 100' (30m) and indoor/outdoor cable over 50' (15m)
- Cable can be factory terminated with a low-loss MPO connector
- Equipped with 4, 8 or 12 adapter ports
- Plastic construction – no grounding required
- Removable cover and adapter housing
- Screw mounts to a wall or flat surface
- Security screw holds cover in place
- Flexible cable routing: Distribution cable can exit from bottom or side of unit

Benefits

- High-density, flexible solution for deploying and managing fiber optic connections within fiber-to-the-premises (FTTP) architectures
- Plug-and-play system eliminates costly splicing requirements
- Innovative RapidReel cable payout spool ensures fast cable deployment and provides storage for excess cable
- Low profile design allows unit to be installed in niche spaces—walls, corridors, behind ducts or other existing equipment
- Reduced bend radius fiber and intuitively designed cable paths eliminate attenuation and signal loss
- Shatter-resistant plastic enclosure minimizes corrosion, dust and moisture entry
- Hinge mechanism locks cover in open position for unhindered technician access

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Mini Rapid Fiber Distribution Terminal (RDT)

RapidReel cable payout spool speeds installation requirements and lowers deployment costs



Plug-and-play technology eliminates splice labor requirements and speeds service connections



Ordering information

RDT - S M XX X 0 0 X XXX X X

Enclosure type

M	12 Fiber plastic
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Cable count

04	4
08	8
12	12

Connector type

J	SC/APC
K	LC/UPC
L	LC/APC
N	SC/UPC

Cable type

D	Indoor/outdoor 3.6mm black
P	3mm loose tube ivory plenum (zipcord for 24 fibers)

Stubbed end configuration

A	MPO connector
O	No connector

Fanout

1	SC/UPC
2	SC/APC
3	LC/UPC
4	LC/APC

Enclosure end configuration

9	900µm - standard
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Cable Length (Plenum)

030	30 meters (100')
061	61 meters (200')
092	92 meters (300')
122	122 meters (400')
152	152 meters (500')
183	183 meters (600')

Cable Length (Indoor/Outdoor)

015	15 meters (50')
030	30 meters (100')
045	45 meters (150')
061	61 meters (200')
076	76 meters (250')
092	92 meters (300')
107	107 meters (350')
122	122 meters (400')
137	137 meters (450')
152	152 meters (500')
168	168 meters (550')
183	183 meters (600')
198	198 meters (650')



¹External spool included for plenum cable lengths over 30m and indoor/outdoor cable over 15m

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Mini Rapid Fiber Distribution Terminal (RDT)

3 mm 24 Fiber Zip Plenum Rated Microcable

Specifications

JACKET COLOR

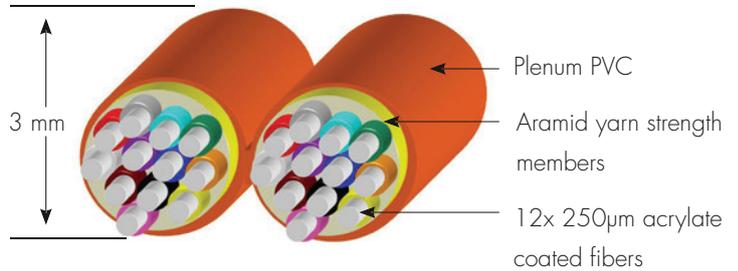
Singlemode Plenum Rated: Ivory
 Multimode OM3: Aqua

ENVIRONMENTAL

Storage temperature: -40° to 70° C (-40° to 158° F)
 Operating temperature: 0° to 70° C (32° to 158° F)
 Installation temperature: 0° to 50° C (32° to 122° F)

MECHANICAL

Number of Fibers: 24
 Maximum tensile load
 Short term: 660 N (150 lbf)
 Long term: 200 N (45 lbf)
 Minimum bend radius
 Installed: 30mm (1.18")
 Loaded: 60mm (2.36")
 Maximum compression: 10 N/mm (57 lbf/in)
 Maximum impact: 2.94 N•m (2.17 lbf•ft)



Optical Performance

	Maximum attenuation (dB/km) 1310nm/1550nm	Typical attenuation (dB/km) 1310nm/1550nm	Guaranteed minimum bandwidth (MHz/km) 1310nm/1550nm
Singlemode reduced bend radius ¹	1.0/1.0	0.4/0.3	N/A

TRANSMISSION PERFORMANCE – GUARANTEED

	Fast Ethernet 100 Mbps 1310 nm/1550nm	Gigabit Ethernet 1 Gbps 1310 nm/1550nm	10 Gigabit Ethernet 10 Gbps 1310 nm/1550nm
Singlemode reduced bend radius	2 km/NA	5 km/NA	10 km/40 km

Compliances

- Telcordia GR-409-CORE Interconnect Category,
 - Impact and compression compliant to horizontal and vertical backbone cable requirements
 - Tensile compliant to horizontal backbone cable requirements
- UL 910 plenum flammability rating
- EIA/TIA FOTPS
- EIA/TIA 568-B
- NFPA 262, NEC OFNP, FT-6
- Restriction of the use of hazardous substances. RoHS (2002/95/EC)
- Comply with California Prop 65 for Safe Drinking and Toxic Enforcement Act

¹ Reduced Bend Radius Fiber is compliant to ITU-T G.652.D, ITU-T G.657A&B, and IEC 60793-2-50 Type B.1.3

3.6 mm 12 Fiber Indoor/Outdoor Microcable

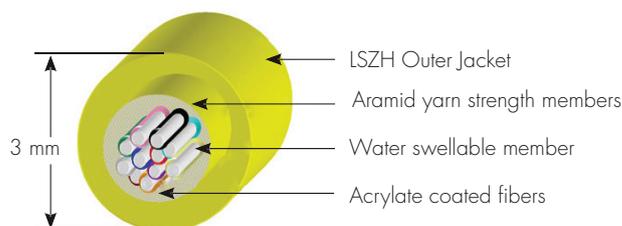
Specifications

ENVIRONMENTAL

Operating temperature: -40° to 75° C (-40° to 78° F)
 Installation temperature: -30° to 50° C (-22° to 122° F)

MECHANICAL

Number of Fibers: 12
 Maximum tensile load
 Short term: 220 (50 lbf)
 Long term: 110 (25 lbf)
 Minimum bend radius
 Installed: 36mm (1.4")
 Loaded: 54mm (2.1")



Optical Performance

	Maximum attenuation (dB/km) 1310nm/1550nm	Typical attenuation (dB/km) 1310nm/1550nm	Guaranteed minimum bandwidth (MHz/km) 1310nm/1550nm
Singlemode reduced bend radius ¹	1.0/1.0	0.4/0.3	N/A
TRANSMISSION PERFORMANCE – GUARANTEED			
	Fast Ethernet 100 Mbps	Gigabit Ethernet 1 Gbps	10 Gigabit Ethernet 10 Gbps
Singlemode reduced bend radius ¹	2km/NA	5km/NA	10km/40km

Compliances

- Restriction of the use of hazardous substances RoHS (2002/95/EC)
- Comply with California Prop 65 for Safe Drinking and Toxic Enforcement Act
- Telcordia GR-20 tested to relevant specifications
- Telcordia GR-409-CORE, EIA/TIA FOTPS (Independently verified)
- ISO/IEC 11801, IEC 60794-2 Optical Fiber Cables Part 2
- EIA/TIA 568-B
- (UL) 1666, NEC OFNR, FT-4

¹ Reduced Bend Radius Fiber allows the minimum bend radius to be cut in half and is compliant to ITUT G.652.D, ITU-T G.657A&B, and IEC 60793-2-50 Type B.1.3



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