

FieldShield® StrongFiber Drop Wheel



Application

Carriers are faced with key challenges when cabling for both brownfield and greenfield MDU deployments. The challenges are varied and include how to install multiple drops from a single connection point when distances are unknown, accommodating slack storage and ensuring alignment of capital investment with customer take rates in a plug-and-play design.

Description

FieldShield StrongFiber Drop Wheel assemblies address these key challenges with a compact, scalable and flexible quick-deploy platform. The end to end plug-and-play solution utilizes a spool concept with 200 feet (60.96 m) of StrongFiber that is preterminated with a pullable SC/APC or SC/UPC connector. The drop wheel is easily deployed by extending the wheel from the cradle and pulling the fiber through the microduct or conduit. Once the pullable connector reaches its destination, the connector is mated to an adapter or directly into an ONT, providing a complete plug-and-play solution. Any remaining slack is stored and managed on the Drop Wheel. The Drop Wheel reduces turn-up time by offering a faster, simplified and splice-free installation which can be performed by a general technician.

Cradle assemblies can be configured to ship unpopulated, allowing for individual drop wheels to be purchased separately to scale and align capital investment with subscriber revenue. Cradle assemblies have the option to be configured with splitters or MPO connector for speedy installations.



Features and Benefits

Integrity

- StrongFiber is designed, tested and certified to GR-20
- StrongFiber Deploy Reel has been designed, tested and certified to GR-63
- Terminations designed, tested and certified to Telcordia GR-326
- Clearfield FiberDeep® Guarantee: 0.2 dB insertion loss or less, exceeding industry standards
- Supports singlemode SC connectors

Protection

- Craft friendly spool technology allows installers to pull the exact amount of cable required
- FieldShield StrongFiber bend-insensitive (G.657.A2) fiber protects optical signal with minimal to zero attenuation
- Lightweight with low coefficient of friction to maximize pull distances

Access

- Black in color
- Spooled with small form factor 900 μm
- Indoor implementations

Investment

- Pre-terminated cable spools reduce upfront deployment costs by simplifying site survey inspections
- Scalable, quick and easy deployment allows capital investment to align with customer take rates



Empty Drop Wheel Cradle



Individual Drop Wheel



FieldShield Loaded Drop Wheel Assembly

FieldShield® StrongFiber Drop Wheel



Technical Specifications

FieldShield StrongFiber Drop Wheel	
Drop Wheel Fiber Type	FieldShield StrongFiber
Connectors	Pullable SC/APC or SC/UPC to Standard SC/APC or SC/UPC
Cable Length	200 feet (60.96 m) per wheel
Drop Wheel Material	Black Thermoplastic
Drop Wheel Radius	4.55 inches (115.57 mm)
Drop Wheel Cradle Dimensions	4 Position: 5.3" H x 3.3" W (134.62 mm x 83.82 mm) 8 Position: 5.3" H x 5.6" W (134.62 mm x 142.24 mm) 12 Position: 5.3" H x 7.8" W (134.62 mm x 198.12 mm) 16 Position: 5.3" H x 10.1" W (134.62 mm x 256.54 mm)

Pre-Configured Part Numbers

Empty Drop Wheel Cradle with Installed Splitter

Part Number	Description
DWC-SCU4-Splitter	Empty 4 position Drop Wheel Cradle with 1 x 4 splitter installed with SC/UPC adapters, no Drop Wheels
DWC-SCA4-Splitter	Empty 4 position Drop Wheel Cradle with 1 x 4 splitter installed with SC/APC adapters, no Drop Wheels
DWC-SCU8-Splitter	Empty 8 position Drop Wheel Cradle with 1 x 8 splitter installed with SC/UPC adapters, no Drop Wheels
DWC-SCA8-Splitter	Empty 8 position Drop Wheel Cradle with 1 x 8 splitter installed with SC/APC adapters, no Drop Wheels
DWC-SCU12-Splitter	Empty 12 position Drop Wheel Cradle with 1 x 12 splitter installed with SC/UPC adapters, no Drop Wheels
DWC-SCA12-Splitter	Empty 12 position Drop Wheel Cradle with 1 x 12 splitter installed with SC/APC adapters, no Drop Wheels
DWC-SCU16-Splitter	Empty 16 position Drop Wheel Cradle with 1 x 16 splitter installed with SC/UPC adapters, no Drop Wheels
DWC-SCA16-Splitter	Empty 16 position Drop Wheel Cradle with 1 x 16 splitter installed with SC/APC adapters, no Drop Wheels

Empty Drop Wheel Cradle with MPO Installed

Part Number	Description
DWC-SCU4-MPO	Empty 4 position Drop Wheel Cradle with male MPO installed with SC/UPC adapters, no Drop Wheels
DWC-SCA4-MPO	Empty 4 position Drop Wheel Cradle with male MPO installed with SC/APC adapters, no Drop Wheels
DWC-SCU8-MPO	Empty 8 position Drop Wheel Cradle with male MPO installed with SC/UPC adapters, no Drop Wheels
DWC-SCA8-MPO	Empty 8 position Drop Wheel Cradle with male MPO installed with SC/APC adapters, no Drop Wheels
DWC-SCU12-MPO	Empty 12 position Drop Wheel Cradle with male MPO installed with SC/UPC adapters, no Drop Wheels
DWC-SCA12-MPO	Empty 12 position Drop Wheel Cradle with male MPO installed with SC/APC adapters, no Drop Wheels
DWC-SCU16-MPO	Empty 16 position Drop Wheel Cradle with male MPO installed with SC/UPC adapters, no Drop Wheels
DWC-SCA16-MPO	Empty 16 position Drop Wheel Cradle with male MPO installed with SC/APC adapters, no Drop Wheels

Individual Drop Wheel - To Be Installed into Empty Cradle

Part Number	Description
DW-001-SCU-SCU 200F	Drop Wheel loaded with 200' (60.96 m) FieldShield StrongFiber SC/UPC
DW-001-SCA-SCA 200F	Drop Wheel loaded with 200' (60.96 m) FieldShield StrongFiber SC/APC