

Self-Supporting Flat Drop Cable Assemblies



Product Overview:

Self-Supporting Flat Drop Cable Assemblies are used in fiber-to-the-home (FTTH) networks to connect distribution terminals to subscriber locations. These assemblies support aerial, buried, and conduit installations and are available in toneable and dielectric versions. Flat drop is typically chosen when long aerial spans require a messenger or when lower material cost is a priority. Its wider, heavier profile provides added stability in certain outside plant placements and remains familiar to many field crews with established installation practices. Assemblies are available with OptiTap®, SC, LC (UPC/APC), or Pushlok® connectors and may be supplied stubbed for splicing or pre-terminated on one or both ends for direct connection.

Product Specifications:

- Connector Types: OptiTap®, SC, LC (UPC/APC polish), and Pushlok®
- Jacket Size: 900 µm, 2 mm, 3 mm in various lengths
- Cable Dimensions:
- Toneable Cable OD: 9.0 mm x 5.0 mm (0.35 in x 0.20 in)
- Dielectric Cable OD: 8.1 mm x 4.5 mm (0.32 in x 0.18 in)

Environmental & Mechanical Properties:

- Operating Temperature: -40°C to 70°C (-40°F to 158°F)
- Storage Temperature: -40°C to 75°C (-40°F to 167°F)
- Installation Temperature: -30°C to 70°C (-22°F to 158°F)
- Polyethylene (PE), UV-resistant for outdoor applications
- OptiTap® Connector Pull Rating: 100 lbs

Features & Benefits:

- Custom cable assemblies engineered for your specific application
- Dielectric design eliminates bonding and grounding requirements
- Toneable version includes a conductor for buried cable detection
- Engineered for durability in harsh environments
- Factory-terminated connectors for secure, dependable links

Part Number Chart:

HE	# of Fibers	Cable Type	Cable Construction	Connectors	Connectors	Breakout Length	Breakout Jacket	Length
	01	SM: Singlemode OS2	D1: Dielectric	53: Inline	53: Inline	S: 6"	2: 2mm	XXXFT
	02		D3: Toneable	57: OptiTap®	57: OptiTap®	T: 12"	3: 3mm	XXXM
				LC: LC/UPC	LC: LC/UPC	U: 18"	32: 3mm	
				LA: LC/APC	LA: LC/APC	V: 24"		
				SC: SC/UPC	SC: SC/UPC	W: 36"		
				SA: SC/APC	SA: SC/APC			

Insertion Loss:

Characteristics	Standard	LC, SC, ST, FC *(APC & OptiTap)
Insertion Loss (Maximum)	TIA 568-C.3	.75 dB
	NetSource, Inc (STD Loss)	≤0.20 dB
	NetSource, Inc (Low Loss)	≤0.15 dB
Return Loss (Minimum)	TIA 568-C.3	-26 dB
	NetSource, Inc	≤-58 dB *(≤-65 dB)

Conformance Standards:

Optical Performance	FOTP-171 (TIA/EIA-455-171) – Insertion Loss
	FOTP-107 (TIA/EIA-455-107) – Return Loss
Endface Geometry & Inspection	IEC 61300-3-35 – Visual Inspection
	IEC 61755-3-1 – Endface Geometry — Single-Fiber
	IEC 61755-3-32 – Endface Geometry — MT Ferrules (Multifiber)
Environmental/ Mechanical (Connectors & Assemblies)	GR-3120 – Environmental, Mechanical & Performance Requirements
	IP68 – Ingress Protection — OptiTip® / OptiTap® Interfaces
Outdoor Cable Requirements	GR-20 – Outside Plant Cable Environmental & Mechanical Requirements
Environmental Compliance	RoHS/REACH – Environmental Compliance