

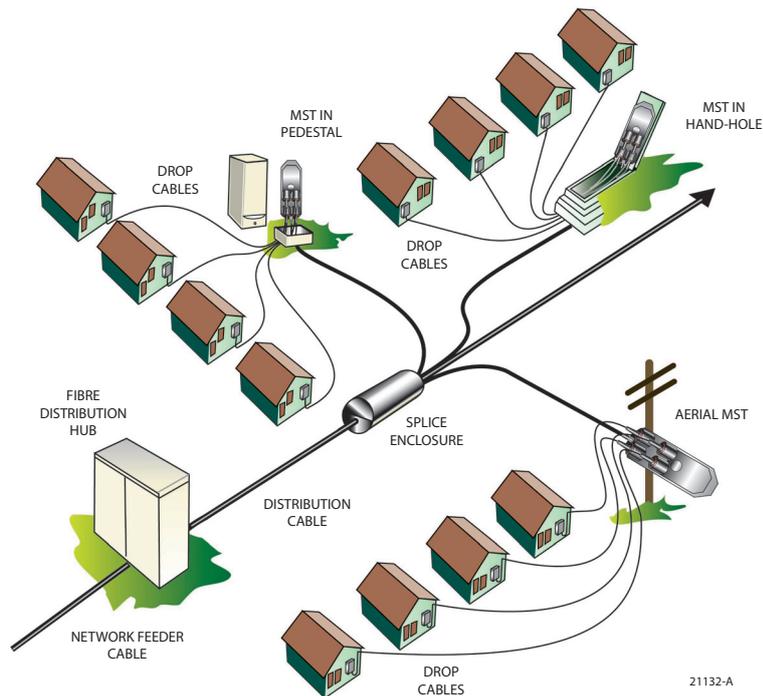
Hardened Drop Cables

Scope

This specification summarises the performance requirements for TE Connectivity's Hardened Drop Cable terminated to a Hardened Fibre Optical Connector (HFOC). The drop connectors are the hardened OptiTap® connectors. This specification is focused on the drop cable with OptiTap only.

Generic Product Description/Overview

The Hardened Drop Cable is used to terminate individual drop cables at the MST (Multiport Service Terminal) connecting the FTTH network to the consumer in a telecommunication network.



Hardened Drop Cables

The hardened connector on the drop connects the HFOC on the enclosure's external surface of the MST to the ONT or the splice point for the ONT. This application facilitates rapid deployment of optical FTTH services by quickly and efficiently connecting hardened connectors on the terminal at the street and the ONT at the premises. Hardened connectors may be installed anywhere fibre terminals are installed including aerial and below grade applications.

The drop cable contains one Reduced Bend Radius (RBR) fibre with an outdoor Hardened Fibre Optic Connector (which is an SC APC connector) at one end and stubbed connector at the other end. When the HFOC is connected to the MST, the connection is water tight and environmentally protects the SC to SC interface for long-term reliable optical connection.



GENERAL MECHANICAL SPECIFICATIONS

Optical Port Connector:	APC/SC hardened connector
HFOC Connector:	Per GR-3120-CORE
HFOC Connector Interface:	Per Corning OptiTap interface specification
SC/APC Interface:	Per GR 326 and EIA/TIA-604-3a
Keyed:	Per Corning specifications
Physical Design Guideline:	Per Corning specifications
Cable:	Per GR 20 and NBN specifications
Cable Color:	Black
Fibre:	Per ITU G.657
Conduit Size:	Pulling eye goes 1.25 in conduit or larger
Dimensions:	8mm x 4.5mm
Weight:	36kg / km
Min Bend Radius Loaded:	150mm
Min Bend Radius Installed:	100mm
Tensile Loads Short Term:	1350N
Tensile Loads Long Term:	400N
Fibre Attenuation (1310nm):	0.35dB / km
Fibre Attenuation (1385nm):	0.35dB / km
Fibre Attenuation (1550nm):	0.25dB / km
Co-efficient of Linear Expansion:	11.07 xE-06 /°C
Typical failure (break) load:	4000N
Maximum permissible cable strain:	0.45% at 1350N

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature:	-10° C to 70° C
Temperature (storage):	-40 to +75 Deg. C
Temperature (Installation):	-10 to +60 Deg. C
Humidity:	0% to uncontrolled
Water Resistance:	NEMA 6 (10-foot water head for 7 days without leakage)

DATA SHEET



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