

10015729 - Fibre In Duct LC/APC VENTURI – LC/APC VENTURI

Product Overview

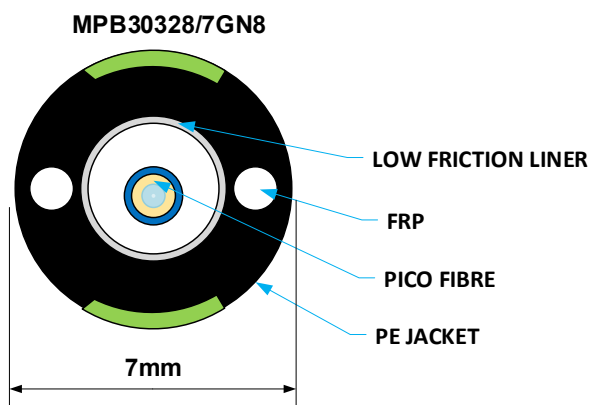
PIA approved fibre in duct assembly with an LC/APC Venturi connector on both ends. The 7/3.7mm microduct features 0.8mm FRP for strain relief and controlled tensile breaking force. The inner fibre construction includes aramid yarn for increased retention.

Application

Customer drop cable suitable for deployment in both UG and aerial scenarios.

Features

- PIA Approved
- FTTP Fibre Pre-Loaded Microduct
- Increased tensile strength inner fibre
- Black with Green Stripes UV MDPE
- Aerial, dielectric, self-supporting design
- Low friction inner surface
- Excellent UV resistance
- Controlled tensile breaking force for maximum security, less than 2000N



Technical Specification

Parameter	Performance	Specification
Connector	LC APC	IEC Interface Standard – Green
Ferrule	Zirconia Ferrule	LC Singlemode 1.25mm OD
Connector Boot		3mm Green
Optical Performance		
Insertion Loss (Max)	$\leq 0.25\text{dB}$	IEC 61300-3-4 (1310nm & 1550nm) Meth. B
Insertion Loss (Mean)	$< 0.12\text{dB}$	IEC 61300-3-4 (1310nm & 1550nm) Meth. B
Repeatability/Durability	$\pm 0.2\text{dB}/500$ Matings	IEC 61300-3-6
Return Loss (Back)	APC $> 60\text{dB}$	IEC 61300-3-6 method 1 or equivalent
End Face Geometry	Radius, Apex	IEC 61755-2-1
Visual	Standard	X200 Magnification
Materials		
Connector	Stainless Steel	SUS316
Optical Fibre	ITU-T G.657.A2	
Dust Cap	Plastic Cap	Clear
Mechanical		
Fibre Retention	$\geq 15\text{N}$	Approved Epoxy: Epotec 353ND or Resin Tech RT153

Insertion Loss (Random Mating Performance) shall be as follows	
Maximum > 97%	$\leq 0.25\text{ dB}$
Mean	$\leq 0.12\text{ dB}$
Return Loss (RL)	$\geq 55\text{ dB}$ (unmated) $\geq 60\text{ dB}$ (mated)
Polished Angle	8 degrees
Scratches $< 1\mu\text{m}$ in core zone	< 4
Reference – Attenuation Random Mated IEC 61300-3-34	

Cable Construction			
Items		Specification	Remark
Optical Fiber	Fiber Type	i) SMF G.657A2	ITU-T G.657
		ii) SMF G.657B3	
	Color	Natural	
Strength Member	Material	Aramid yarn	
	Diameter	$1.1 \pm 0.2\text{mm}$	
Jacket	Thickness	Nom. 0.25mm	
	Material	LSZH PO	
	Color	White	
Approx. buffer weight (Net.)		1.2 kg/km	

Cable Characteristics			
Parameter		Specification	Remark
Mechanical	Maximum Tensile load	40N	IEC 60794-1-21 E1
	Crush resistance	150N / 5cm	IEC 60794-1-21 E3
	Impact resistance	0.74 N.m	IEC 60794-1-21 E4
	Minimum Bend radius	20 x O.D	IEC 60794-1-21 E11
	Temperature Range	-20℃ ~ +70℃	IEC 60794-1-22-F1
Environmental	Flame retardant	CPR Class E _{ca}	IEC 60332-1-2

Duct Specification	
Product Color	Black with Green Stripes
Material	HDPE
Strain Relief	0.8mm FRP
Temperature, Operation [°C]	-20 to +60
Temperature, Storage [°C]	-30 to +70
Temperature, Installation [°C]	-15 to +50
Diameter OD/ID (mm)	7/3.7
Bend Radius (mm)	140
Tensile Force, Installation (N)	850
Crush (N/100mm)	1900
Impact (J)	1
Conformance	
Abrasion	IEC 60794-1-21-E2B(1)
Kink	IEC 60794-1-21-E10,
Impact	IEC 60794-1-21-E4
Crush	IEC 60794-1-21-E3
Bend	IEC 60794-1-21-E11A
Torsion	IEC 60794-1-21-E7
Inner Clearance	IEC 60794-1-21-E123, IEC 60794-5-10, Ann. D

Ordering Information

Part Number	Description
ISCVM-D7B-1-ALV-ALV-010M	External 7/4mm Black with Green Stripes UV Stable MDPE Pre Installed
ISCVM-D7B-1-ALV-ALV-025M	External 7/4mm Black with Green Stripes UV Stable MDPE Pre Installed
ISCVM-D7B-1-ALV-ALV-050M	External 7/4mm Black with Green Stripes UV Stable MDPE Pre Installed
ISCVM-D7B-1-ALV-ALV-075M	External 7/4mm Black with Green Stripes UV Stable MDPE Pre Installed
ISCVM-D7B-1-ALV-ALV-100M	External 7/4mm Black with Green Stripes UV Stable MDPE Pre Installed
ISCVM-D7B-1-ALV-ALV-125M	External 7/4mm Black with Green Stripes UV Stable MDPE Pre Installed
ISCVM-D7B-1-ALV-ALV-150M	External 7/4mm Black with Green Stripes UV Stable MDPE Pre Installed
ISCVM-D7B-1-ALV-ALV-175M	External 7/4mm Black with Green Stripes UV Stable MDPE Pre Installed
ISCVM-D7B-1-ALV-ALV-200M	External 7/4mm Black with Green Stripes UV Stable MDPE Pre Installed
ISCVM-D7B-1-ALV-ALV-225M	External 7/4mm Black with Green Stripes UV Stable MDPE Pre Installed
ISCVM-D7B-1-ALV-ALV-250M	External 7/4mm Black with Green Stripes UV Stable MDPE Pre Installed
ISCVM-D7B-1-ALV-ALV-275M	External 7/4mm Black with Green Stripes UV Stable MDPE Pre Installed