FIBER OPTIC CABLE

Multi Loose Tube - Direct Burial Cable

Description	Part Number MM 50µm	Part Number SM 9µm
Double Jacket Direct Burial Fiber Optic Cable, 4 Core	NVL - DBMM-004	NVL - DBSM-004
Double Jacket Direct Burial Fiber Optic Cable, 6 Core	NVL - DBMM-006	NVL - DBSM-006
Double Jacket Direct Burial Fiber Optic Cable, 8 Core	NVL - DBMM-008	NVL - DBSM-008
Double Jacket Direct Burial Fiber Optic Cable, 12 Core	NVL - DBMM-012	NVL - DBSM-012
Double Jacket Direct Burial Fiber Optic Cable, 24 Core	NVL - DBMM-024	NVL - DBSM-024

*Number of Fiber options are available specific customer requirements

FEATURE/BENEFITS

- Fiber Count up to 144
- Strain free fibers in a stranded loose tube design
- SZ stranding design allows for easy mid-span access and isolate fibers from installation and environmental rigors
- Most common and widely used design
- Complies with international or national standard (IEC, STEL-K)
- Suitable for access and long distance applications

FULL RANGE OF FIBER TYPE

- G. 651 (Multimode Fiber)
- G. 652 (Singlemode Fiber)
- G. 655 (NZD Fiber for DWDM application)

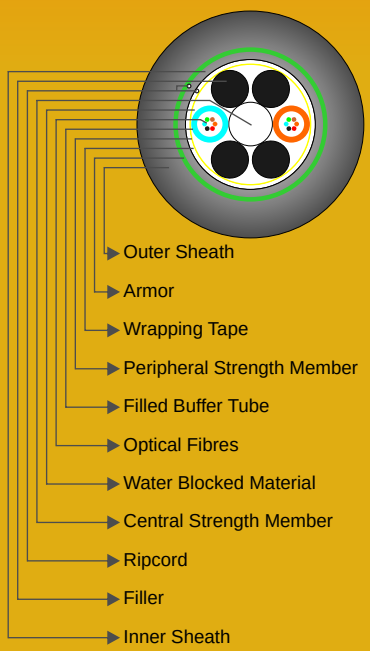
TYPICAL PARAMETER

No. Of Fibres		core	up to72	up to 96	up to144
Nominal Outer Diameter		mm	11.7	13.7	17.0
Nominal Cable Weight		kg/km	250	300	425
Minimum Bend Radius		mm	160	180	220
Maximum Tensile Load		N	2500	3000	4500
Temperatures	Operation	℃		-20 to +70	
	Installation	℃		-10 to +40	
	Storage	℃		-20 to +70	
Crush Resistance		N/100mm		3000	
Impact Resistance		N.m		10	

*Jacketing Construction options are available specific customer requirements

OPTICAL SPECIFICATIONS

	µ.m.	9/125	50/125	50/125 Hi Band	50/125 OM3
Core Diameter (m)	(db/km)	9.2±0.4	50±3	50±3	50±3
Typical Attenuation @ 850 nm	(db/km)		2.8	2.8	2.5
Typical Attenuation @ 1300 nm	(db/km)		0.8	0.8	0.7
Typical Attenuation @ 1310 nm	(db/km)	0.36			
Typical Attenuation @ 1550 nm	(db/km)	0.23			
Chrometic Disper. @ 1310 nm	(ps/nm*Km)	≤3.5			
Chrometic Disper. @ 1550 nm	(ps/nm*Km)	≤18			
Cable cut-off Wavelength	(nm)	≤1260			
Bandwidth @ 850 nm	(Mhz x Km)		≥400	≥600	≥1500
Bandwidth @ 1300 nm	(Mhz x Km)		≥800	≥1200	≥500



Full Range of Protection

- Water Blocked
- Rodent Resistant
- Impact Resistant

Full Range of Application

- Outdoor
- Underground

Further Protection Available

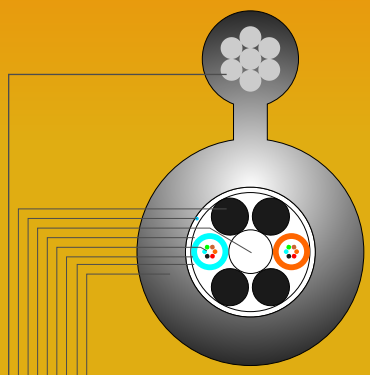
- Flame Retardant
- Termite Resistant

FIBER OPTIC CABLE

Figure - 8 Cable

Description	Part Number MM 50µm	Part Number SM 9µm
Aerial Fiber Optic Cable, 4 Core	NVL - ARMM-004	NVL - ARSM-004
Aerial Fiber Optic Cable, 6 Core	NVL - ARMM-006	NVL - ARSM-006
Aerial Fiber Optic Cable, 8 Core	NVL - ARMM-008	NVL - ARSM-008
Aerial Fiber Optic Cable, 12 Core	NVL - ARMM-012	NVL - ARSM-012
Aerial Fiber Optic Cable, 24 Core	NVL - ARMM-024	NVL - ARSM-024

*Number of Fiber options are available specific customer requirements



- Outer Sheath
- Wrapping Tape
- Filled Buffer Tube
- Optical Fibres
- Water Blocked Material
- Central Strength Member
- Ripcord
- Filler
- Cable Messenger

FEATURE/BENEFITS

- Fiber Count up to 144
- Strain free fibers in a stranded loose tube design
- SZ stranding design allows for easy mid-span access and isolate fibers from installation and environmental rigors
- Most common and widely used design
- Complies with international or national standard (IEC, STEL-K)
- Suitable for access and long distance applications

FULL RANGE OF FIBER TYPE

- G. 651 (Multimode Fiber)
- G. 652 (Singlemode Fiber)
- G. 655 (NZD Fiber for DWDM application)

TYPICAL PARAMETER

No. Of Fibres			core	up to72	up to 96	up to144
Nominal Diameter	Minor Axes	mm		11.8	13.2	16.3
	Major Axes	mm		21	24	28
Nominal Cable Weight		kg/km		235	320	475
Minimum Bend Radius		mm		250	275	300
Maximum Working Tension		N		2000	4000	6000
Temperatures	Operation	°C			-40 to +70	
	Installation	°C			-20 to +40	
	Storage	°C			-40 to +70	
Crush Resistance		N/100mm			3000	
Impact Resistance		N.m			10	

*Jacketing Construction options are available specific customer requirements

OPTICAL SPECIFICATIONS

	µ.m.	9/125	50/125	50/125 Hi Band	50/125 OM3
Core Diameter (m)	(db/km)	9.2±0.4	50±3	50±3	50±3
Typical Attenuation @ 850 nm	(db/km)		2.8	2.8	2.5
Typical Attenuation @ 1300 nm	(db/km)		0.8	0.8	0.7
Typical Attenuation @ 1310 nm	(db/km)	0.36			
Typical Attenuation @ 1550 nm	(db/km)	0.23			
Chrometic Disper. @ 1310 nm	(ps/nm*Km)	≤3.5			
Chrometic Disper. @ 1550 nm	(ps/nm*Km)	≤18			
Cable cut-off Wavelength	(nm)	≤1260			
Bandwidth @ 850 nm	(Mhz x Km)		≥400	≥600	≥1500
Bandwidth @ 1300 nm	(Mhz x Km)		≥800	≥1200	≥500

Full Range of Protection

- Water Blocked
- Rodent Resistant
- Impact Resistant

Full Range of Application

- Outdoor
- Aerial

Further Protection Available

- Flame Retardant
- Shutgun Resistant

FIBER OPTIC CABLE

Universal Duct Cable

NETVIEL®

Description	Part Number MM 50µm	Part Number SM 9µm
Universal Duct Fiber Optic Cable, 4 Core	NVL - UDMM-004	NVL - UDSM-004
Universal Duct Fiber Optic Cable, 6 Core	NVL - UDMM-006	NVL - UDSM-006
Universal Duct Fiber Optic Cable, 8 Core	NVL - UDMM-008	NVL - UDSM-008
Universal Duct Fiber Optic Cable, 12 Core	NVL - UDMM-012	NVL - UDSM-012
Universal Duct Fiber Optic Cable, 24 Core	NVL - UDMM-024	NVL - UDSM-024

*Number of Fiber options are available specific customer requirements

FEATURE/BENEFITS

- Fiber Count up to 144
- Strain free fibers in a stranded loose tube design
- SZ stranding design allows for easy mid-span access and isolate fibers from installation and environmental rigors
- Most common and widely used design
- Complies with international or national standard (IEC, STEL-K)
- Suitable for access and long distance applications

FULL RANGE OF FIBER TYPE

- G. 651 (Multimode Fiber)
- G. 652 (Singlemode Fiber)
- G. 655 (NZD Fiber for DWDM application)

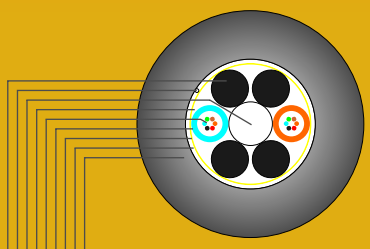
TYPICAL PARAMETER

No. Of Fibres		core	up to 12	up to 24
Nominal Outer Diameter		mm	6.5	8
Nominal Cable Weight		kg/km	48	55
Minimum Bend Radius		mm	160	180
Maximum Tensile Load		N	750	1000
Temperatures	Operation	°C		-20 to +60
	Installation	°C		-10 to +40
	Storage	°C		-20 to +60
Crush Resistance		N/100mm		1500
Impact Resistance		N.m		5

*Jacketing Construction options are available specific customer requirements

OPTICAL SPECIFICATIONS

	µ.m.	9/125	50/125	50/125 Hi Band	50/125 OM3
Core Diameter (m)	(db/km)	9.2±0.4	50±3	50±3	50±3
Typical Attenuation @ 850 nm	(db/km)		2.8	2.8	2.5
Typical Attenuation @ 1300 nm	(db/km)		0.8	0.8	0.7
Typical Attenuation @ 1310 nm	(db/km)	0.36			
Typical Attenuation @ 1550 nm	(db/km)	0.23			
Chrometic Disper. @ 1310 nm	(ps/nm*Km)	≤3.5			
Chrometic Disper. @ 1550 nm	(ps/nm*Km)	≤18			
Cable cut-off Wavelength	(nm)	≤1260			
Bandwidth @ 850 nm	(Mhz x Km)		≥400	≥600	≥1500
Bandwidth @ 1300 nm	(Mhz x Km)		≥800	≥1200	≥500



Full Range of Protection

- Water Blocked
- Rodent Resistant

Full Range of Application

- Outdoor
- Indoor
- Underground

Further Protection Available

- Flame Retardant

FIBER OPTIC CABLE

ADSS (All Dielectric Self Supporting)

NETVIEL®

Description	Part Number MM 50µm	Part Number SM 9µm
All Dielectric Fiber Optic Cable, 4 Core	NVL - ADMM-004	NVL - ADSM-004
All Dielectric Fiber Optic Cable, 6 Core	NVL - ADMM-006	NVL - ADSM-006
All Dielectric Fiber Optic Cable, 8 Core	NVL - ADMM-008	NVL - ADSM-008
All Dielectric Fiber Optic Cable, 12 Core	NVL - ADMM-012	NVL - ADSM-012
All Dielectric Fiber Optic Cable, 24 Core	NVL - ADMM-024	NVL - ADSM-024

*Number of Fiber options are available specific customer requirements

FEATURE/BENEFITS

- Fiber Count up to 144
- Strain free fibers in a stranded loose tube design
- SZ stranding design allows for easy mid-span access and isolate fibers from installation and environmental rigors
- Most common and widely used design
- Complies with international or national standard (IEC, STEL-K)
- Suitable for access and long distance applications

FULL RANGE OF FIBER TYPE

- G. 651 (Multimode Fiber)
- G. 652 (Singlemode Fiber)
- G. 655 (NZD Fiber for DWDM application)

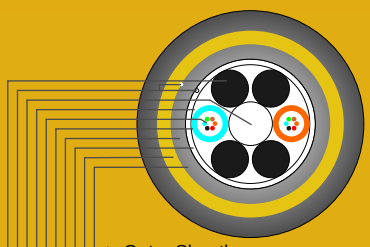
TYPICAL PARAMETER

No. Of Fibres		core	up to72	up to 96	up to144
Nominal Outer Diameter		mm	15.0 - 15.7	17.0 - 18.0	20.5 - 21.5
Nominal Cable Weight		kg/km	200	300	400
Minimum Bend Radius		mm	325	180	450
Maximum Working Tension		N	6000	10000	25000
Maximum Breaking Load		N	30000	60000	150000
Temperatures	Operation	°C		-40 to +70	
	Installation	°C		-20 to +40	
	Storage	°C		-40 to +70	
Crush Resistance		N/100mm		2000	
Impact Resistance		N.m		5	

*Jacketing Construction options are available specific customer requirements

OPTICAL SPECIFICATIONS

	µ.m.	9/125	50/125	50/125 Hi Band	50/125 OM3
Core Diameter (m)	(db/km)	9.2±0.4	50±3	50±3	50±3
Typical Attenuation @ 850 nm	(db/km)		2.8	2.8	2.5
Typical Attenuation @ 1300 nm	(db/km)		0.8	0.8	0.7
Typical Attenuation @ 1310 nm	(db/km)	0.36			
Typical Attenuation @ 1550 nm	(db/km)	0.23			
Chrometic Disper. @ 1310 nm	(ps/nm*Km)	≤3.5			
Chrometic Disper. @ 1550 nm	(ps/nm*Km)	≤18			
Cable cut-off Wavelength	(nm)	≤1260			
Bandwidth @ 850 nm	(Mhz x Km)		≥400	≥600	≥1500
Bandwidth @ 1300 nm	(Mhz x Km)		≥800	≥1200	≥500



- Outer Sheath
- Aramid Yarns Reinforcement
- Wrapping Tape
- Inner Sheath
- Filled Buffer Tube
- Optical Fibres
- Water Blocked Material
- Central Strength Member
- Filler
- Ripcord

Full Range of Protection

- Water Blocked

Full Range of Application

- Outdoor
- Aerial

Further Protection Available

- Flame Retardant
- Rodent Resistant
- Shotgun Resistant
- Track Resistant (25kV)

www.netviel.com

FIBER OPTIC CABLE ASSEMBLY

NETVIEL®

Patch Cord Cable

Description	Part Number MM 50µm	Part Number SM 9µm
Patch Cord, Duplex, ST to ST, 2 meter	NVL-DPMM-ST-ST-002	NVL-DPSM-ST-ST-002
Patch Cord, Duplex, ST to ST, 3 meter	NVL-DPMM-ST-ST-003	NVL-DPSM-ST-ST-003
Patch Cord, Duplex, ST to ST, 5 meter	NVL-DPMM-ST-ST-005	NVL-DPSM-ST-ST-005
Patch Cord, Duplex, ST to SC, 2 meter	NVL-DPMM-ST-SC-002	NVL-DPSM-ST-SC-002
Patch Cord, Duplex, ST to SC, 3 meter	NVL-DPMM-ST-SC-003	NVL-DPSM-ST-SC-003
Patch Cord, Duplex, ST to SC, 5 meter	NVL-DPMM-ST-SC-005	NVL-DPSM-ST-SC-005
Patch Cord, Duplex, ST to LC, 2 meter	NVL-DPMM-ST-LC-002	NVL-DPSM-ST-LC-002
Patch Cord, Duplex, ST to LC, 3 meter	NVL-DPMM-ST-LC-003	NVL-DPSM-ST-LC-003
Patch Cord, Duplex, ST to LC, 5 meter	NVL-DPMM-ST-LC-005	NVL-DPSM-ST-LC-005
Patch Cord, Duplex, ST to FC, 2 meter	NVL-DPMM-ST-FC-002	NVL-DPSM-ST-FC-002
Patch Cord, Duplex, ST to FC, 3 meter	NVL-DPMM-ST-FC-003	NVL-DPSM-ST-FC-003
Patch Cord, Duplex, ST to FC, 5 meter	NVL-DPMM-ST-FC-005	NVL-DPSM-ST-FC-005
Patch Cord, Duplex, SC to SC, 2 meter	NVL-DPMM-SC-SC-002	NVL-DPSM-SC-SC-002
Patch Cord, Duplex, SC to SC, 3 meter	NVL-DPMM-SC-SC-003	NVL-DPSM-SC-SC-003
Patch Cord, Duplex, SC to SC, 5 meter	NVL-DPMM-SC-SC-005	NVL-DPSM-SC-SC-005
Patch Cord, Duplex, SC to LC, 2 meter	NVL-DPMM-SC-LC-002	NVL-DPSM-SC-LC-002
Patch Cord, Duplex, SC to LC, 3 meter	NVL-DPMM-SC-LC-003	NVL-DPSM-SC-LC-003
Patch Cord, Duplex, SC to LC, 5 meter	NVL-DPMM-SC-LC-005	NVL-DPSM-SC-LC-005
Patch Cord, Duplex, SC to FC, 2 meter	NVL-DPMM-SC-FC-002	NVL-DPSM-SC-FC-002
Patch Cord, Duplex, SC to FC, 3 meter	NVL-DPMM-SC-FC-003	NVL-DPSM-SC-FC-003
Patch Cord, Duplex, SC to FC, 5 meter	NVL-DPMM-SC-FC-005	NVL-DPSM-SC-FC-005
Patch Cord, Duplex, LC to LC, 2 meter	NVL-DPMM-LC-LC-002	NVL-DPSM-LC-LC-002
Patch Cord, Duplex, LC to LC, 3 meter	NVL-DPMM-LC-LC-003	NVL-DPSM-LC-LC-003
Patch Cord, Duplex, LC to LC, 5 meter	NVL-DPMM-LCLC-005	NVL-DPSM-LC-LC-005
Patch Cord, Duplex, SC to FC, 2 meter	NVL-DPMM-SC-FC-002	NVL-DPSM-SC-FC-002
Patch Cord, Duplex, SC to FC, 3 meter	NVL-DPMM-SC-FC-003	NVL-DPSM-SC-FC-003
Patch Cord, Duplex, SC to FC, 5 meter	NVL-DPMM-SC-FC-005	NVL-DPSM-SC-FC-005

Ordering Information

NVL-DP□□-□□-□□-□□□

- Cable Length in Meter : 002 = 2 m / 003 = 3 m / 005 = 5 m
- Connector Type on Second End : ST / SC / LC / FC
- Connector Type on Grip End : ST / SC / LC / FC
- Fiber Type : MM = 50/125µm / SM = 9 µm

Pigtail Cable

Description	Part Number MM 50µm	Part Number SM 9µm
Pigtail ST, 1 meter	NVL-PTMM-ST-01	NVL-PTSM-ST-01
Pigtail ST, 2 meter	NVL-PTMM-ST-02	NVL-PTSM-ST-02
Pigtail SC, 1 meter	NVL-PTMM-SC-01	NVL-PTSM-SC-01
Pigtail SC, 2 meter	NVL-PTMM-SC-02	NVL-PTSM-SC-02
Pigtail LC, 1 meter	NVL-PTMM-LC-01	NVL-PTSM-LC-01
Pigtail LC, 2 meter	NVL-PTMM-LC-02	NVL-PTSM-LC-02
Pigtail FC, 1 meter	NVL-PTMM-FC-01	NVL-PTSM-FC-01
Pigtail FC, 2 meter	NVL-PTMM-FC-02	NVL-PTSM-FC-02