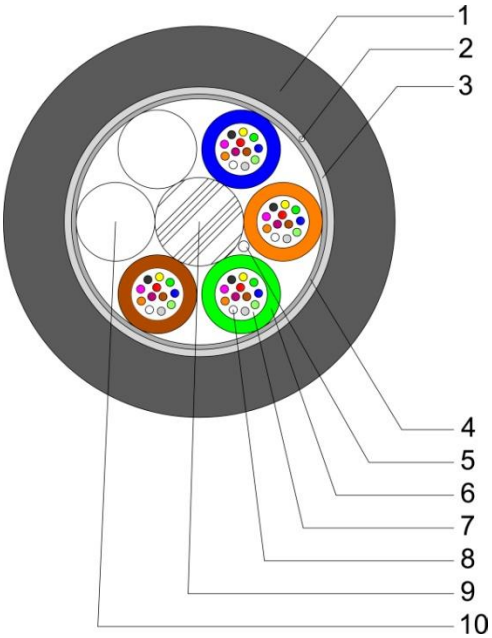
Duct Type (MT1)

OPUG 48 FO, Multi Loose Tube, Dry Core, Non-Metallic Armor, HDPE Jacket

Cable Cross Section



Cable Structure

1. *Outer HDPE Sheath*
2. *Ripcord*
3. *Peripheral Strength Member (glass yarn)*
4. *Water Blocking Tape*
5. *Water Blocking Yarn*
6. *Loose Tube (PBT)*
7. *Tube Filling Compound (thixotropic gel)*
8. *Optical Fibers (SM G.655D)*
9. *Central Strength Member*
10. *PE Filler*

Number of Fibers		48
Number of Loose Tubes		04x12
Loose Tube -Single Mode Optical Fiber -Filling Jell Material -Tube Material & Diameter		 ITU-T G.655D Thixotropic Jelly PBT / 2,25 ± 0,10mm
Central Strength Member -Material & Diameter		Non-metallic FRP / 2,4 ± 0,1mm
Core Wrapping -Material		Water Blocking Tape
Peripheral Strength Member -Material		E-Glass yarn
Outer Sheath -Material & Thickness		HDPE / 1,6 ± 0,1mm
Nom. Cable	Diameter (mm)	11,1 ± 0,6
	Net Weight (kg/km)	90 ± %5
	Drum Length (m)	2000 ±5%

Duct Type (MT1)

Color Details

No.		1	2	3	4	5	6	7	8	9	10	11	12
Fiber Color	**48**	Red	Green	Blue	Yellow	White	Grey	Brown	Aqua	Violet	Black	Orange	Pink
Tube Color	**48**	Red	Green	Blue	Yellow								
Sheath Color		Black UV											
Marking		"0000M 2025 OPUG 48F G.655 4x12F 0001M "											

Mechanical & Environmental Characteristics

Test		Test Standards	Specified Value
Optical Attenuation	-1310nm -1550nm	IEC 60793-1-40	≤ 0.36 dB/km ≤ 0.22 dB/km
Tensile Strength	-Short Term -Long Term	IEC 60794-1-2-E1	Max. 2.000N Max. 1.200N
Crush Resistance		IEC 60794-1-2-E3	1.500N/10cm
Repeated Bending		IEC 60794-1-2-E6	20D, 100N, 10 cycles
Min. Bending Radius	-Static -Dynamic	IEC 60794-1-2-E11	15xD 20xD
Impact Resistance		IEC 60794-1-2-E4	4,4Nm
Torsion		IEC 60794-1-2 E7	±180º
Water Penetration		IEC 60794-1-2-F5B	-No drip (h=1m, L=3m, T=24h)
Temperature Range (ºC)	-Installation -Operation	IEC 60794-1-2-F1	-10ºC to + 60ºC -20ºC to + 70ºC

D: Cable outer diameter

Packing:

-Non-returnable wooden drum
-Strong wooden batten protection
-Cable ends are accessible for a test

Product Code: DUC-MT1-04X12SM2-N(D)G20P

Order Code: A-DQ(BN)2Y…48F(04X12SM5)2kN-D11.1

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