

Technical Specification

Nx62.5/125µm Multimode OM1 ARMORED MTD OUTDOOR FO Cable with Inner LS0H jacket

Part Number: G61-xxx04-xx7

Revision 10/23 Date: 16 July 2023



G61-00604



G61-01204

Multimode OM1 color coded tight buffered optical fibers cabled together, served with swellable aramid yarn and jacketed with LS0H inner- jacket. A corrugated steel tape and an outer heavy duty, black, UV resistant PE jacket render the cable suitable for rodent infested and harsh environments.

Fiber Properties

Basic optical fibers	62.5/125µm Multimode OM1	
Attenuation	3.5 dB max. @850nm	1.5 dB max. @130nm0nm
Min. Bandwidth (Laser EMB)	NS	NS
Min. Bandwidth (OFL)	200 MHz·km @850nm	600 MHz·km @1300nm
Numerical Aperture	0.275±0.015	
Core diameter	62.5±3.0 µm	
Clad diameter	125±2.0 µm	
Cladding non-circularity	2% max.	
Core/Cladding concentricity error	3.0 µm max.	
Primary coating diameter	245±15 µm	
Proof test level	100 kpsi min.	

Cable Construction

Buffer coating	Tight LS0H (HFFR) compound
Tight buffer OD	900±50 µm
Fibers color code	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Turquoise
Core formation	Tight-coated color coded fibers cabled together and served with aramid yarn
Strength elements	Swellable aramid yarn
Rip cords	Two Polyester cords laid in 180° orientation for easy armor & jacket removal. Red, DTX2000
Inner jacket	Black LS0H (HFFR) compound, 0.9±0.2 mm thickness
Rip cords	Two Polyester cords laid in 180° orientation for easy armor & jacket removal. Red, DTX6000
Armor	Corrugated steel tape, 150µ thickness, bonded to itself and to the outer jacket
Outer jacket	Heavy duty, Black UV-resistant MDPE compound, 1.5±0.2 mm thickness
Surface marking	HCS G61-xxx04 MTD Nx62.5/125µ ANSI/TIA-568-C.3 ISO/IEC-11801 OM1 ARMORED OUTDOOR FO CABLE CE 2011/65/EU (RoHS-2) [Batch Number] [Week , Year] [Meter Mark] METER
Surface marking - example	HCS G61-01204 MTD 12x62.5/125µ ANSI/TIA-568-C.3 ISO/IEC-11801 OM1 ARMORED OUTDOOR FO CABLE CE 2011/65/EU (RoHS-2) 10/2020 GB1234 0001 METER

Note: The surface marking on the cables jacket shall be made with hot-foil stamping and not with inkjet printing

Optional Constructions

P/N	Fiber count	Cable nom. OD mm	Weight kg/km
G61-00604	6	10.0±0.5	100±10%
G61-01204	12	11.0±0.5	120±10%

Physical Properties	Value	Test Method
Tensile strength - short term	1000 N max.	IEC-60794-1-21 E1
Compressive load (crush resistance)	2000 N/10cm max.	IEC-60794-1-21 E3
Impact	10J, 3 impacts	IEC-60794-1-21 E4
Bend radius	20xCable OD	IEC-60794-1-21 E11
Temperature cycling	-30 to +60°C	IEC-60794-1-22 F1
Water penetration	3m cable, 1m water, 24h exposure	IEC-60794-1-22 F5
Storage temperature range	-20 to +70°C	-
Installation temperature range	-20 to +60°C	-
Operating temperature range	-20 to +60°C	-

This cable fully conforms to EU Directive 2011/65/EU (RoHS-2)