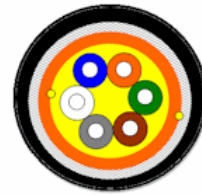


Technical Specification
Multimode ARMORED MTD OUTDOOR FO Cable
Part Number: GXX-XXX03
Revision 08/14 Date: 01 May 2014



GXX-00603



GXX-01203

Multimode color coded tight buffered optical fibers cabled together, served with swellable aramid yarn and jacketed with PVC 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.

Cable Construction

Alternative Optical fibers	62.5/125µm Multimode OM1	50/125µm Multimode OM2	50/125µm Multimode OM3	50/125µm Multimode OM4
Optical transmission properties	See below	See below	See below	See below
Core diameter	62.5±3.0 µm	50±3.0 µm	50±3.0 µm	50±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.			
Buffer coating	Tight PVC compound.			
Tight buffer OD	900±50 µm			
Number of optical fibers	6 or 12, see below.			
Fibers Color code	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Turquoise.			
Core formation	All tight-coated color coded fibers cabled together and served with water blocking swellable aramid yarn.			
Rip cord	Stranded rip-cord is laid in parallel for easy jacket removal.			
Inner jacket	PVC compound for indoor use. Color not specified.			
Rip cord	Two aramid ropes, 180° apart, laid in parallel under the armor for easy jacket and armor removal.			
Armor	Corrugated steel tape, 150µ thickness, bonded to itself and to the outer jacket.			
Overall jacket	Heavy duty, UV resistant MDPE compound.			
Color	Black, RAL 9005.			

Surface Marking G61-00603 HES G61-00603 MTD 6x62.5/125µ ANSI/TIA-568-C.3 ISO/IEC-11801 OM1 ARMORED OUTDOOR FO LAN CABLE CE 2011/65/EU (RoHS-2) [Batch Number] [Week , Year] [Meter Mark] METER

Surface Marking G52-00603 HES G52-00603 MTD 6x50/125µ ANSI/TIA-568-C.3 ISO/IEC-11801 OM2 ARMORED OUTDOOR FO LAN CABLE CE 2011/65/EU (RoHS-2) [Batch Number] [Week , Year] [Meter Mark] METER

Surface Marking G54-00603 HES G54-00603 MTD 6x50/125µ ANSI/TIA-568-C.3 ISO/IEC-11801 OM3 ARMORED OUTDOOR FO LAN CABLE CE 2011/65/EU (RoHS-2) [Batch Number] [Week , Year] [Meter Mark] METER

Surface Marking G56-00603 HES G56-00603 MTD 6x50/125µ ANSI/TIA-568-C.3 ISO/IEC-11801 OM4 ARMORED OUTDOOR FO LAN CABLE CE 2011/65/EU (RoHS-2) [Batch Number] [Week , Year] [Meter Mark] METER

Surface Marking G61-01203 HES G61-01203 MTD 12x62.5/125µ ANSI/TIA-568-C.3 ISO/IEC-11801 OM1 ARMORED OUTDOOR FO LAN CABLE CE 2011/65/EU (RoHS-2) [Batch Number] [Week , Year] [Meter Mark] METER

Surface Marking G52-01203 HES G52-01203 MTD 12x50/125µ ANSI/TIA-568-C.3 ISO/IEC-11801 OM2 ARMORED OUTDOOR FO LAN CABLE CE 2011/65/EU (RoHS-2) [Batch Number] [Week , Year] [Meter Mark] METER

Surface Marking G54-01203 HES G54-01203 MTD 12x50/125µ ANSI/TIA-568-C.3 ISO/IEC-11801 OM3 ARMORED OUTDOOR FO LAN CABLE CE 2011/65/EU (RoHS-2) [Batch Number] [Week , Year] [Meter Mark] METER

Surface Marking G56-01203 HES G56-01203 MTD 12x50/125µ ANSI/TIA-568-C.3 ISO/IEC-11801 OM4 ARMORED OUTDOOR FO LAN CABLE CE 2011/65/EU (RoHS-2) [Batch Number] [Week , Year] [Meter Mark] METER

Mechanical Properties

Cable type	Inner Jacket OD mm	Cable OD mm	Total weight Kg/Km
6-Fiber cables	5.2	10.2	113
12-Fiber cables	6.2	11.2	138

Physical Properties

	Value	Test Method
Tensile strength - short term	1000 N max.	IEC-60754-1-2 E1
Compressive load (crush resistance)	300 N/10cm max.	IEC-60754-1-2 E3
Impact	2.9 N·mm max, 3x2 impacts.	IEC-60754-1-2 E4
Bend radius	10xCable OD	IEC-60754-1-2 E11
Temperature cycling	-30 to +60C	IEC-60754-1-2 F1
Water penetration	3m cable, 1m water, 24h exposure	IEC-60754-1-2 F5
Storage Temperature range	-20 to +70C	-
Installation Temperature range	-5 to +50C	-
Operating Temperature range	-10 to +50C	-

Optical Transmission Properties

Fiber P/N	Multimode Fiber Type	Multimode Fiber Grade & Standard	Attenuation (dB/Km)				Min. Bandwidth (MHz·Km)		Min. Bandwidth (MHz·Km)		Numerical Aperture
			850nm		1300nm		850nm	1300nm	850nm	1300nm	
			Nom	Max	Nom	Max					
61	62.5/125μm	OM1 - ISO/IEC 11801 EIA/TIA-492 AAAA TIA-568-C.3	3.0	3.5	0.7	1.5	200	600	NS	NS	0.275±0.015
52	50/125μm	OM2 - ISO/IEC 11801 EIA/TIA-492 AAAB A1a.1 - IEC 60793-2-10 TIA-568-C.3	2.8	3.5	0.8	1.5	500	600	NS	NS	0.200±0.020
54	50/125μm	OM3 - ISO/IEC 11801 EIA/TIA-492 AAAC-A A1a.2 - IEC 60793-2-10 TIA-568-C.3	3.0	3.5	0.7	1.5	1500	500	2000	500	0.200±0.020
56	50/125μm	OM4 - ISO/IEC 11801 EIA/TIA-492 AAAD A1a.3 - IEC 60793-2-10 TIA-568-C.3	2.3	2.5	0.6	0.8	3500	500	4700	500	0.200±0.015

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