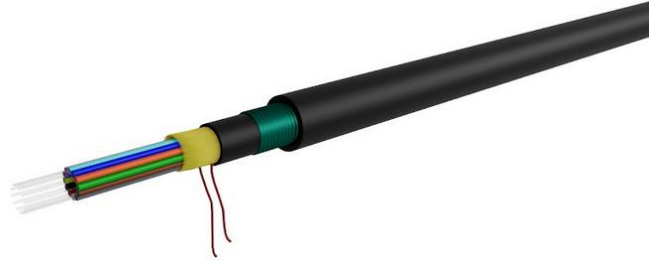




FIBER OPTIC CABLE

Technical Specification

- Cable Type: Multi-Tight, Armored, Double jacket Outdoor Cable with inner LS0H jacket
- Part Number: G54-xxx04-xx7
- Revision: 01/26
- Date: 23 April 2026



The cable contains color-coded tight buffered OM3 multi-mode optical fibers. These fibers are stranded together with swellable yarns and providing water-blocking protection. For mechanical protection, the cable incorporates an inner LS0H jacket followed by a corrugated steel tape armor that is bonded to a polyethylene (PE) outer jacket, making it suitable for deployment in harsh outdoor environments. The design supports installation in conduits, ducts, or direct burial, and is intended for use in local telecommunication networks. The steel tape armor provides enhanced resistance against rodent attacks, ensuring reliable long-term performance.

Physical Description	
Basic fiber	50/125µm Graded index Multi mode, OM3 per ISO/IEC 11801 & TIA-568-C.3
Buffer coating	Tigh LS0H (HFFR), 900±50 µm
Buffer color code	<div><div>■ Blue</div><div>■ Orange</div><div>■ Green</div><div>■ Brown</div><div>■ Grey</div><div>□ White</div></div> <div><div>■ Red</div><div>■ Black</div><div>■ Yellow</div><div>■ Purple</div><div>■ Pink</div><div>■ Turquoise</div></div>
Central strength member	None
Core construction	Tight-coated color-coded fibers cabled together and served with aramid yarn
Water blocking	Dry Core, water swellable yarn
Strength members	Aramid yarn
Rip cord	2 x Polyester rope, DTX 2000. laid in parallel for easy jacket removal
Inner jacket	■ Black FR-LS0H compound. 0.9±0.2mm thickness. Conforming to IEC 60332-1/IEC 60754/IEC 61034
Rip cord	2 x Polyester rope, DTX 6000. laid in parallel for easy jacket removal
Armor	150µm corrugated steel tape, laid longitudinally, bonded to the outer jacket
Outer jacket	UV-Resistant PE compound for outdoor use. 1.5±0.2mm thickness.
Jacket color	■ Black, RAL 9005
Surface marking	HCS G54- xxx 04 MTD NN x50/125µm OM3 Multi mode CSA DJ DC OUTDOOR FO CABLE { MM / YYY } CE 2011/65/EU (RoHS-2)^^^ { Batch }^^^^ { Meter Count } Meter
Surface marking – example	HCS G54-01204 MTD 12x50/125µm OM3 Multi mode CSA SJ DC OUTDOOR FO CABLE 04/2026 CE 2011/65/EU (RoHS-2) NW1234 9999 Meter

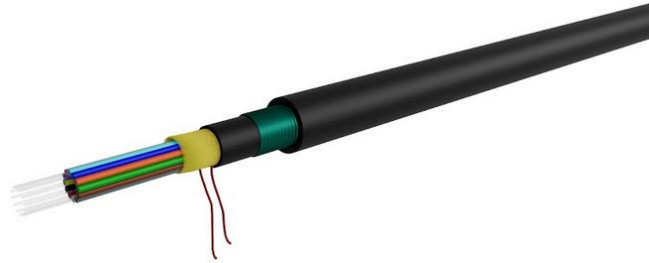
Ordering Information			
HCS P/N	Fiber count	Cable nom. OD. (mm)	Cable nom. weight (kg/km)
G54-00604	6 x OM3	10.0±0.5	100
G54-01204	12 x OM3	11.0±0.5	120
G54-02404	24 x OM3	13.0±0.5	140
Note:	For 24F cable – fibers 13 to 24 are solid color with a black tracer, Black tight with white tracer		



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Transmission Properties @ 20°C				
Cabled attenuation (dB/km)	850 nm		1300 nm	
	Nom.	Max.	Nom.	Max.
	3.0	3.5	0.7	1.5
Min. Bandwidth (MHz*km)	850 nm		1300 nm	
	OFL	EMB	OFL	EMB
	1500	2000	500	500
Numerical aperture	0.200 ± 0.015µm			

Mechanical Properties		
Test	Value	Test method
Tensile strength – short term	1000 N max.	IEC 60794-1-21 E1
Tensile strength – long term	600 N max.	IEC 60794-1-21 E1
Crush resistance	200 N/cm max.	IEC 60794-1-21 E3
Impact resistance	10 N*m max., 3 impacts	IEC 60794-1-21 E4
Repeated bending	20 x D, 25 cycles	IEC 60794-1-21 E6
Torsion	L=125xD, ±90°, 10 cycles	IEC 60794-1-21 E7
Bend radius - short term	20 x D min.	IEC 60794-1-21 E11
Bend radius - long term	10 x D min.	IEC 60794-1-21 E11
Temperature cycling	-30 to +60°C	IEC 60794-1-22 F1
Water penetration	1m water, head 3m cable length, 24H min.	IEC 60794-1-22 F5
Flame test	IEC 60332-1, IEC 60754, IEC 61034 – Only for inner cable	
Storage temperature	-20 to +70°C	N/A
Installation temperature	0 to +50°C	N/A
Operation temperature	-20 to +70°C	N/A

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