

# Base-16 MPO to SN Breakout Harness Cable Assemblies

## SPECIFICATIONS

8-to-1 Breakout Cable Harness Assemblies are pre-terminated 16-fiber cable assemblies that breakout 8 lane parallel optic applications (i.e., 400G-SR8, 800GBASE-DR8, and 800G-SR8). For example, a single MPO connector running 800GBASE-DR8 shall break out into 8 lanes of 100GBASE-DR on each SN connector. These ultra-high bandwidth applications are used for high-speed switch-to-switch links, and to support artificial intelligence (AI) and machine learning (ML) applications. All cable assemblies are factory terminated and tested to deliver verified optical performance and reliability for improved network integrity.



## STANDARDS

ISO/IEC 11801	TIA/EIA-568-C.1
TIA/EIA-568-C.3	RoHS Compliant
TIA-604-5 (FOCIS-5)	

## CONSTRUCTION

Cable type:	Indoor		
Cable jacket ratings:	Optical Fiber Nonconductive Plenum (OFNP) Low Smoke Zero Halogen (LSZH) Euroclass B2ca		
Fiber types:	Multimode:	OM4 50/125µm	Signature Core™: OM4+ 50/125µm
Connector types; end 'A':	MPO-16 APC Female		
Connector types; end 'B':	SN		
Fiber count:	16		
Jacket color:	OM4:	Aqua	
	OM4+:	Aqua	

## APPLICATIONS

Allows system designers to tailor configuration and reach to application requirements; to minimize waste, optimize cable management, speed deployment, and improve flexibility and manageability for lower installation costs.

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## PHYSICAL AND MECHANICAL PROPERTIES

Cable outside diameter (OD):	3.8mm
Minimum bend radius:	Under load: 20 x cable OD Static: 10 x cable OD
Tensile strength:	220N
Compressive strength (Crush):	35N/cm
Cable flex:	25 cycles
Cable twist:	10 cycles
Connector durability:	500 mating cycles

## ENVIRONMENTAL PROPERTIES

Temperature range:	Storage and shipping: -40°C to 70°C (-40°F to 158°F) Operation: 0°C to 40°C (32°F to 104°F) Intallation: 0°C to 70°C (32°F to 158°F)
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## OPTICAL PROPERTIES

Maximum connector insertion loss:	Multimode: 0.35dB (Optimized MPO) 0.15dB (Optimized SN)
Minimum connector return loss:	Multimode: >30dB (Optimized MPO) >26dB (Optimized SN)

## PART NUMBER CONFIGURATOR

Example: GZCRPOP5NF005 = OM4 Harness, 16-Fiber, round, plenum, MPO-16 APC Female to SN harness with 32 inch equal breakout, 8-to-1 (U2) polarity, optimized IL, 5 feet

Character	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Example	G	Z	C	R	P	O	P	F	H	5	N	F	0	0	5

1 - Fiber	G = Fiber	8 - Connector Type End "B"	F = SN
2 - Fiber Type	Z = OM4 S = OM4+	9 - Connector Variant	H = 32 in. Equal Breakout
3 - Fiber Count	C = 16-fiber	10 - Construction/ Performance	5 = Optimized IL/8-to-1 (U2) Polarity
4 - Cable Type	R = Round	11 - Pulling Eye	N = No pulling eye
5 - Jacket Type	L = Low Smoke Zero Halogen (LSZH) P = Plenum (OFNP) B = EuroClass B2ca	12 - Length, Unit	F = Feet M = Meters
6 - Connector Type End "A"	O = MPO-16 Female	13 - Length	Meters: 001 to 030
7 - Connector Variant	P = No variant APC	14	Feet: 003 to 100
		15	

For additional options, contact Panduit Customer Service at 800-777-3300.