



WHIRLWIND
FIBER OPTIC SOLUTIONS
■ PRODUCT GUIDE

whirlwind

*Fiber*optic

OpticalCON DUO, QUAD and ADAPTER CABLES



- Rugged, Bend-Intensive Tactical Polyurethane Jacket
- Helically Stranded Cable Core Maximizes Flexibility and Mechanical Protection
- Excellent Crush Resistance (440 N/cm)
- Snakeskin® Fanout Protection
- Machine-Polished UPC Connectors
- Connector Back Reflection: -55dB RL (Typical)
- Gigabit Ethernet Maximum Distance: 5km @ 1310nm (Singlemode)
- Gigabit Ethernet Maximum Distance: 600m @ 1310nm (Multimode)
- Cable Attenuation: < 0.5dB/km @ 1310nm (Singlemode)
- Cable Attenuation: < 1.5dB/km @ 1310nm (Multimode)

Reel options



Ordering Chart

OpticalCON DUO, QUAD and ADAPTER CABLES

Sample Part Number: **OC-2-S-OD-SC-WD7-100**

OC	CH	FIBER TYPE	END A	END B	REEL	LENGTH (ft.)
	2	S	OD	OD	0	000
	4	M50	OQ	OQ	WD2X	
				SC	WD2D	
				ST	WD3	
				LC	WD3S	
					WD7	
					WD7C	

CH	
# of ch.	2, 4

Fiber Type	
S	singlemode
M50	multimode (50/125)

END A	
OD	opticalCON Duo
OQ	opticalCON Quad

END B	
SC	SC UPC (IEC 61754-4)
ST	ST UPC (IEC 61754-2)
LC	LC UPC (IEC 61754-20)
OD	opticalCON Duo
OQ	opticalCON Quad

REEL	
0	NO REEL
WD2D	split reel
WD2X	inner & outer drums
WD3	split reel
WD3S	split reel
WD7	inner & outer drums
WD7C	inner & outer drums, w/ casters

TACTICAL SC, ST and LC ASSEMBLIES



- Rugged, Bend-Intensive Tactical Polyurethane Jacket
- Helically Stranded Cable Core Maximizes Flexibility and Mechanical Protection
- Excellent Crush Resistance (440 N/cm)
- Snakeskin® Fanout Protection
- Machine-Polished UPC Connectors
- Connector Back Reflection: -55dB RL (Typical)
- Gigabit Ethernet Maximum Distance: 5km @ 1310nm (Singlemode)
- Gigabit Ethernet Maximum Distance: 600m @ 1310nm (Multimode)
- Cable Attenuation: < 0.5dB/km @ 1310nm (Singlemode)
- Cable Attenuation: < 1.5dB/km @ 1310nm (Multimode)

Reel options



Ordering Chart

TACTICAL SC, ST and LC ASSEMBLIES

Sample Part Number: **OC-8-S-T-ST-0-025**

OC	CH	FIBER TYPE	T	END A	END B	REEL	LENGTH (ft.)
	2	S		SC	SC	0	000
	4	M50		ST	ST	WD2X	
	8	M62		LC	LC	WD2D	
	12					WD3	
	24					WD3S	
						WD7	
						WD7C	

CH	
# of ch.	2, 4, 8, 12, 24

Fiber Type	
S	singlemode
M50	multimode (50/125)
M62	multimode (62.5/125)

END A	
SC	SC UPC (IEC 61754-4)
ST	ST UPC (IEC 61754-2)
LC	LC UPC (IEC 61754-20)

END B	
SC	SC UPC (IEC 61754-4)
ST	ST UPC (IEC 61754-2)
LC	LC UPC (IEC 61754-20)

REEL	
0	NO REEL
WD2D	split reel
WD2X	inner & outer drums
WD3	split reel
WD3S	split reel
WD7	inner & outer drums
WD7C	inner & outer drums, w/ casters

RISER (CMR) and PLENUM (CMP) INSTALLATION ASSEMBLIES



OC-8-M62-R-SC-LC-025



OC-8-S-P-SC-SC-025



Multiconductor fiber cable, "socked" for a conduit pull.

Both fanouts are treated with Snakeskin® on each individual channel, protected with bubble wrap and encased in a Snakeskin® sock. The end of the sock is triple-tied behind the adhesive fanout shrink, which is in turn bonded to Kevlar strength members, ensuring that absolutely no tension is applied to the fanout during the pull.

- UV, Water, Fungus and Chemical Resistant
- UL Listed Type OFNR (UL 1666) and FT4 (CSA C22.2 No. 232) [CMR]
- UL Listed Type OFNP (ANSI/NFPA 262) and FT6 (CSA C22.2 No. 232) [CMP]
- Snakeskin® Fanout Protection
- Machine-Polished UPC Connectors
- Connector Back Reflection: -55dB RL (Typical)
- Gigabit Ethernet Maximum Distance: 5km @ 1310nm (Singlemode)
- Gigabit Ethernet Maximum Distance: 600m @ 1310nm (Multimode)
- Cable Attenuation: < 0.5dB/km @ 1310nm (Singlemode)
- Cable Attenuation: < 1.5dB/km @ 1310nm (Multimode)
- Meets or Exceeds: GR-409-CORE, ICEA-S-104-696, ICEA-S-83-596, TIA-568, TIA-598



SC Single



LC Dual



SC Dual



ST Dual



SC Dual



opticalCON Dual



opticalCON Quad



TAC 4

Ordering Chart

RISER (CMR) and PLENUM (CMP) INSTALLATION ASSEMBLIES

OC	CH	FIBER TYPE	NEC Rating	END A	END B	LENGTH (ft.)
	2	S	R	SC	SC	000
	4	M50	P	ST	ST	
	8	M62		LC	LC	
	12					
	24					

Sample Part Number: **OC-8-M62-R-SC-LC-025**

CH	
# of ch.	2, 4, 8, 12, 24

Fiber Type	
S	singlemode
M50	multimode (50/125)
M62	multimode (62.5/125)

NEC Rating	
R	riser rated (CMR)
P	plenum rated (CMP)

END A	
SC	SC UPC (IEC 61754-4)
ST	ST UPC (IEC 61754-2)
LC	LC UPC (IEC 61754-20)

END B	
SC	SC UPC (IEC 61754-4)
ST	ST UPC (IEC 61754-2)
LC	LC UPC (IEC 61754-20)

SMPTE HYBRID TACTICAL CABLE ASSEMBLIES and ADAPTERS



OC-SMPTE-IP-IS-WD2D-100



OC-SMPTE-OS-IP-0-010



OC-SMPTE-OS-OS-0-100



- Meets or Exceeds SMPTE 304M / 311M Standards
- Machine-Polished UPC Connectors
- SMPTE 304M and OpticalCON Hybrid Connectors
- Tight Buffered 9/125 Micron Singlemode Fibers
- 24 AWG Data Conductors, 16 AWG Auxillary Conductors
- CMR rated, UL1666 Flame Tested, Indoor / Outdoor Cable (9.125mm OD)
- Aramid Yarn and 302 Stainless Steel Strength Members
- Connector Back Reflection: -55dB RL (Typical)
- Optical Cable Attenuation: < 0.45dB/km
- DC Loop Resistance : 8.5 Ohms / 1000 ft. (16 AWG Conductors)
- DC Loop Resistance : 45.7 Ohms / 1000 ft. (24 AWG Conductors)

Reel options



WD2X



WD2D



WD3, WD35



WD7 - available with casters (WD7C)

Ordering Chart

SMPTE HYBRID TACTICAL CABLE ASSEMBLIES and ADAPTERS

OC	SMPTE	END A	END B	REEL	LENGTH (ft.)
		OS	OS	0	000
		IP	IP	WD2X	
		IS	IS	WD2D	
				WD3	
				WD3S	
				WD7	

Sample Part Number: **OC-SMPTE-0S-0S-0-100**

END A	
OS	opticalCON inline hybrid SMPTE
IP	304M inline hybrid SMPTE plug
IS	304M inline hybrid SMPTE socket

END B	
OS	opticalCON inline hybrid SMPTE
IP	304M inline hybrid SMPTE plug
IS	304M inline hybrid SMPTE socket

REEL	
0	NO REEL
WD2D	split reel
WD2X	inner & outer drums
WD3	split reel
WD3S	split reel
WD7	inner & outer drums
WD7C	inner & outer drums, w/ casters

TACTICAL MULTIPIN ASSEMBLES



OC-12-M62-T12-0-025



OC-12-M62-T12-WD2D-200

- Hermaphroditic Design Facilitates Quick Deployment without Gender Consideration
- Machine-Polished UPC Connectors
- Durable Anodized Aluminum Connector Body
- Rugged, Bend-Intensive Tactical Polyurethane Jacket
- Enhanced Kevlar Retention System Supports 400-lb Cable Retention
- Meets or Exceeds IP-68 Environmental Sealing Requirements
- Connector Attenuation: < 0.75dB (Singlemode)
- Connector Attenuation: <0.75dB (Multimode)
- Connector Back Reflection: -50dB RL (Typical)
- Gigabit Ethernet Maximum Distance: 5km @ 1310nm (Singlemode)
- Gigabit Ethernet Maximum Distance: 600m @ 1310nm (Multimode)
- Cable Attenuation: < 0.5dB/km @ 1310nm (Singlemode)
- Cable Attenuation: < 1.5dB/km @ 1310nm (Multimode)

Reel options



WD2X



WD2D



WD3, WD3S



WD7 - available with casters (WD7C)

Ordering Chart

TACTICAL MULTIPIN ASSEMBLES

OC	CH	FIBER TYPE	MULTIPIN	REEL	LENGTH (ft.)
	2	S	T4	0	000
	4	M50	T4	WD2X	
	8	M62	T12	WD2D	
	12		T12	WD3	
	24		T24	WD3S	
				WD7	
				WD7C	

Sample Part Number: **OC-12-M62-T12-0-025**

CH	
# of ch.	2, 4, 8, 12, 24

Fiber Type	
S	singlemode
M50	multimode (50/125)
M62	multimode (62.5/125)

MULTIPIN	
T4	TAC-4 inline multipin (2-4 ch.)
T12	TAC-12 inline multipin (8-12 ch.)
T24	TAC-24 inline multipin (24-ch.)

REEL	
0	NO REEL
WD2D	split reel
WD2X	inner & outer drums
WD3	split reel
WD3S	split reel
WD7	inner & outer drums
WD7C	inner & outer drums, w/ casters

SMPTE TACTICAL BREAKOUT BOXES



OBB-5-304



OBB-1-304

- 13 Gauge, Powder-Coated Cold-Rolled Steel Base
- 0.125" Black Anodized Aluminum, Custom Laser-Etched Output Panel
- 304M or OpticalCON Hybrid SMPTE Input Connectors
- Power / Data Terminated to NC5FDLB1 XLR Connectors
- SMPTE Fiber Contacts Terminated to SC UPC with Ceramic Sleeves and Captive Protective Caps

ST FIELD and TRUCK DOCK TERMINATION ENCLOSURES



OTE-ST-18-A



OTE-ST-12-B



- Ideal Enclosure for Fusion-Spliced Multiconductor Armored Cable Termination
- 1-RU, 0.080" Powder-Coated Cold-Rolled Steel Backbox
- 0.125" Black Anodized Aluminum, Custom Laser-Etched Front Panel
- Compact Size (4.25" Deep - Type B) Facilitates Use in Shallow Field J-Boxes
- Fitted with Internal Tie Bars for Cable Management and Strain Relief
- ST Bulkhead Connectors with Captive Caps and Ceramic Alignment Sleeves
- Singlemode or Multimode Applications

Ordering Chart

SMPTE TACTICAL BREAKOUT BOXES Sample Part Number: OBB-5-304

OBB	CH	INPUT CONNECTOR
	1	304
	2	OS
	4	
	5	
	6	
	8	

CH	
# of ch.	1, 2, 4, 5, 6, 8

Input Connector	
304	304M hybrid SMPTE socket
OS	opticalCON hybrid SMPTE

ST FIELD and TRUCK DOCK TERMINATION ENCLOSURES Sample Part Number: OTE-ST-18-A

OTE	ST	CH	CABLE EGRESS
		6	A
		12	B
		18	

CH	
# of ch.	6, 12, 18

Cable Egress	
A	(3) 13.5mm compression fittings on rear
B	(4) grommetted obround holes; (2) rear, (2) sides

Genuine Whirlwind Cable Reels - Made In The USA



OC-2-M50-OD-OD-WD2D-100



OC-12-M62-T12-WD2D-200

Reel options



WD2X



WD2D



OC-SMPTE-IP-IS-WD2D-100



WD3, WD3S



WD7 SHOWN-AVAILABLE WITH CASTERS (WD7C)

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