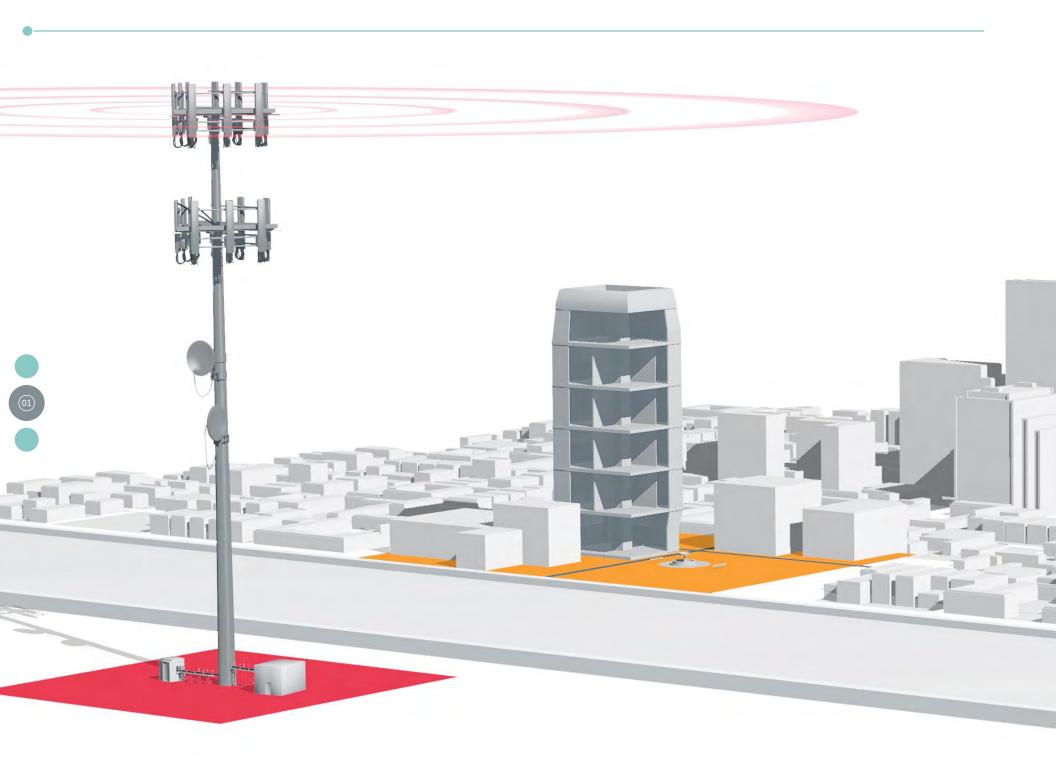
# Wireless Cabling Solutions Application Guide





## Delivering Wireless Cable Solutions for the HetNet

We provide our customers with a broad portfolio of cable products and accessories designed for the modern wireless heterogeneous network (HetNet), including coaxial, fiber, power, hybrid and category cables, as well as connectors and jumpers used for cell towers, Small Cells and Distributed Antenna Systems (DAS). Our coaxial cable products offer industry-leading electrical performance, with low attenuation, low VSWR and low PIM. We have manufacturing facilities throughout the United States, and we offer the shortest lead times in the industry, getting products to our customers when they need them in order to complete their projects on time.



- CELL TOWER

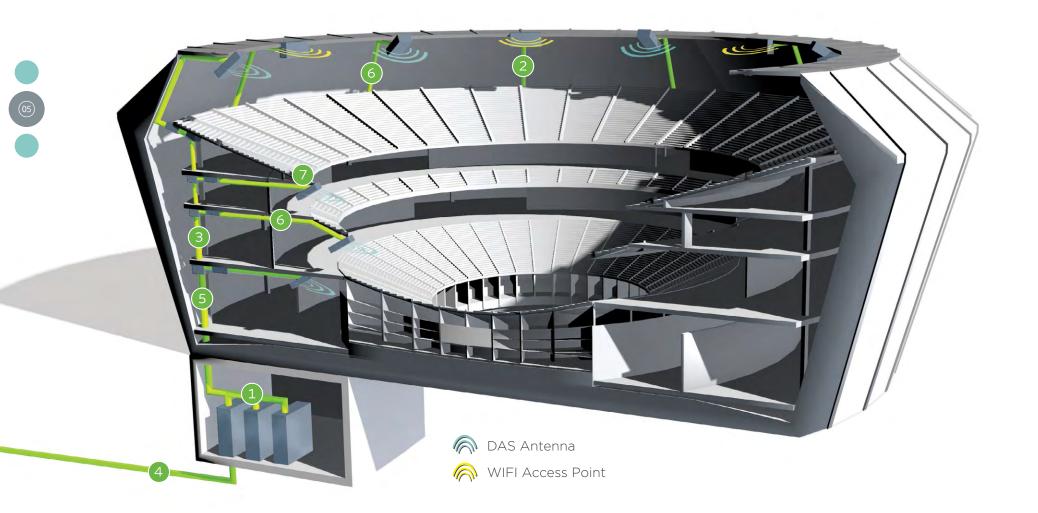
# From the Bottom Up We Have You Covered

Superior Essex Macro Cell and transmission line products are designed to withstand extreme cell tower weather and temperature conditions while providing the electrical performance necessary for reliable high-speed broadband communications. Our cabling solutions include fiber, power and hybrid cable products for Remote Radio Heads (RRH), Power over Ethernet (PoE) cable for outdoor split-mount microwave systems, and traditional base-station Radio Frequency (RF) feeder applications. With a wide range of sizes, configurations and rugged designs, Superior Essex has all the cable you need to complete your tower installation from the bottom up.

DIN RF Feeder Connectors Backhaul RRH Cable 04 Fiber and PoE Tower RF Jumper Accessories

# Operate at Maximum Capacity

Stadiums, arenas and entertainment venues are challenged with supporting increasingly high volumes of data traffic during game-days and events. To help venue owners and managers meet their growing network demands, Superior Essex offers indoor/outdoor coaxial, fiber and hybrid cable for DAS and Ethernet cable for carrier WiFi. With reliable, industry-leading electrical performance across multiple frequency bands, our cable products ensure that your network operates at maximum capacity.







1 86 88 h

## Stay Connected Inside and Out

As mobile devices become the primary technology for personal and business communications, and the National Fire Code expands the requirement for providing survivable in-building radio coverage for first responders, building owners and wireless carriers must provide uninterrupted wireless coverage indoors and outdoors. To help overcome these challenges, Superior Essex offers a complete portfolio of high-performance cables for indoor DAS and Small Cells. Our products are plenum and riser-rated and may be installed throughout a building, even in the most restrictive air carrying space. With an extensive portfolio of copper, fiber and hybrid cables capable of transmitting power and data seamlessly throughout indoor and outdoor environments, we help you stay connected inside and out.



#### INDOOR COAX -

#### DAS CABLE AND CONNECTORS

			Compatible DIN	Compatible N	Connect	tor Interface Type			
		Product Name	Connectors	Connectors	Gender	Straight or Angle			
		HESC-12DR	CHFS-12DM	CHFS-12NM	Male	Straight			
	00000	1/2" Super Flexible, Foam Dielectric	CHFS-12DF	CHFS-12NF	Female	Straight			
		Copper Corrugated Outer Conductor	CHFS12DMR	CHFS12NMR	Male	Right Angle			
		ETL listed CMR	CHFS12DFR	CHFS12NFR	Female	Right Angle			
		LHF-12DR	CLH-12DM	CLH-12NM	Male	Straight			Compatible
Riser		$\frac{1}{2}$ " Low Loss, High Flexible, Foam Dielectric	CLH-12DF	CLH-12NF	Female	Straight	Part Number	Description	Cable/ Tool
Ris		Copper Corrugated Outer Conductor	CLH-12DMR	CLH-12NMR	Male	Right Angle	T-HFSC12DR	Cable Prep Drill Tool	HFSC-12DR
		ETL Listed CMR	CLH-12DFR	CLH-12NFR	Female	Right Angle	T-LHF12DR	Cable Prep Drill Tool	LHF-12DR
		HFAC-12DR	CHFA-12DM	CHFA-12NM	Male	Straight	T-HFAC12DR	Cable Prep Drill Tool	HFAC-12DR
	0000	$\frac{1}{2}$ " Low Loss, High Flexible, Foam Dielectric	CHFA-12DF	CHFA-12NF	Female	Straight	T-HFSC12DP	Cable Prep Drill Tool	HFSC-12DP
		Aluminum Corrugated Outer Conductor	-	CHFA12NMR	Male	Right Angle	T-LHFA12DP	Cable Prep Drill Tool	LHF-12DP, HFAC-12DP
		ETL Listed CMR	-	CHFA12NFR	Female	Right Angle			
		HFSC-12DP	CHFSP12DM	CHFSP12NM	Male	Straight			
	10000000	1/2" Super Flexible, Air Dielectric	CHFSP12DF	CHFSP12NF	Female	Straight			
		Copper Corrugated Outer Conductor	CHFSP12DMR	CHFSP12NMR	Male	Right Angle			
		ETL Listed CMP	CHFSP12DFR	CHFSP12NFR	Female	Right Angle			
_		LHF-12DP	CLHP-12DM	CLHP-12NM	Male	Straight			
Plenum	000	½" Low Loss, High Flexible, Air Dielectric	CLHP-12DF	CLHP-12NF	Female	Straight		3. 100	
ler		Copper Corrugated Outer Conductor	CLHP12DMR	CLHP12NMR	Male	Right Angle			
		ETL Listed CMP	CLHP12DFR	CLHP12NFR	Female	Right Angle			Compatible
		HFAC-12DP	CHFAP12DM	CHFAP12NM	Male	Straight	Part Number	Description	Cable/ Tool
	000	1/2" Low Loss, High Flexible, Air Dielectric	CHFAP12DF	CHFAP12NF	Female	Straight	TF-LHFA12	Flare and Foam	LHF-12DP, LHF-12DR,
		Aluminum Corrugated Outer Conductor	CHFAP12DMR	CHFAP12NMR	Male	Right Angle		Separator	HFAC-12DP, HFAC-12DR
		ETL Listed CMP	CHFAP12DFR	CHFAP12NFR	Female	Right Angle	TF-HFSC12	Flare and Foam Separator	HFSC-12DP, HFSC-12DR

CABLE PREP TOOLS

#### DAS JUMPERS

(09)

		Part Number <sup>1</sup>	Cable Size and Type	Interface Type End 1	Interface Type End 2				
		JR12xNMNM		N Male	N Male				
	53 mm	JR12×NMNF		N Male	N Female	(		8	
Riser		JR12xNFNF	½" HFSC-12DR	N Male N Male   N Male N Female   N Male N Female   N Female N Female   N Male N Male Right Angle   N Male N Female Right Angle   N Male N Female Right Angle   N Female N Female Right Angle   N Male N Male   N Male N Male   N Male N Female   N Male N Female   N Male N Female   N Male N Female   N Male N Male Right Angle	1		60m		
Ris	00	JR12xNMRM	72 HESC-IZDR	N Male	N Male Right Angle				
		JR12xNMRF		N Male	N Female Right Angle			Compatible	
		JR12×NFRF		N Female	N Female Right Angle	Part Number	Description	Cable/ Tool	
		JP12xNMNM		N Male	N Male		Replacement Blade		
_		JP12xNMNF		N Male	N Female	TBK-LHFA12	Kit for Automatic Cable Prep	T-LHFA12DP, T-LHF12DR, T-HFAC12DR	
un		JP12xNFNF	½" HFSC-12DP	N Female	N Female		Tool	1 HINGEDIC	
Plenum	0	JP12xNMRM	1/2 HFSC-IZDP	N Male	N Male Right Angle		Replacement Blade		
		JP12xNMRF		N Male	N Female Right Angle	TBK-HFSC12	Kit for Automatic Cable Prep	T-HFSC12DP, T-HFSC12DR	
		JP12xNFRF		N Female	N Female Right Angle		Tool	I-HESCIZDK	

<sup>1</sup>Where "x" = jumper cable length (i.e. 1 meter, 2 meters or 3 meters).

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#### OUTDOOR COAX ----

#### RF CABLE AND CONNECTORS

			Compatible DIN	Compatible N	Connec	tor Interface Type
		Product Name	Connectors	Connectors	Gender	Straight or Angle
Flex	HESC-12D		CHFS-12DM	CHFS 12NM	Male	Straight
r Fle	1/2	<sup>1</sup> / <sub>2</sub> " Super Flexible Foam Dielectric	CHFS-12DF	CHFS-12NF	Female	Straight
lper	Jacob Constanting	Copper Corrugated Outer	CHFS12DMR	CHFS12NMR	Male	Right Angle
Sul		Conductor	CHFS12DFR	CHFS12NFR	Female	Right Angle
		I HE-12D	CLH-12DM	CLH-12NM	Male	Straight
	Tasasaa	½" Low Loss Feeder Dielectric	CLH-12DF	CLH-12NF	Female	Straight
SS	AAAAAAA	Copper Corrugated Outer	CLH-12DMR	CLH-12NMR	Male	Right Angle
Loss		Conductor	CLH-12DFR	CLH-12NFR	Female	Right Angle
Low	maaaa	Product Name Connectors   HFSC-12D CHFS-12DM   ½" Super Flexible Foam Dielectric Copper Corrugated Outer Conductor CHFS-12DM   LHF-12D CHFS12DFR   ½" Low Loss Feeder Dielectric Copper Corrugated Outer Conductor CLH-12DM   CLH-12DM CLH-12DM   CLH-12DFR CLH-12DM   1½" Low Loss Feeder Dielectric Copper Corrugated Outer Conductor CLH-12DMR   CLH-12DFR CLH-12DMR   1¼" Low Loss Feeder Dielectric Copper Corrugated Outer Conductor CLH-33DM   1¼" Low Loss Feeder Dielectric Copper Corrugated Outer Conductor CLH-33DM   1¼" Low Loss Feeder Dielectric Copper Corrugated Outer CLH-33DM   1¼" Low Loss Feeder Dielectric Conductor CLH-33DF   1¼" Ultra Low Loss Feeder Dielectric Copper Corrugated Outer Conductor CLH-22DM   114-22DL 114-22DL   114-22DL 114-22DL	CLH-33DM	CLH-33NM	Male	Straight
			CLH-33DF	CLH-33NF	Female	Straight
S			CLH-22DM	CLH-22NM	Male	Straight
Low Los	Sanaan		CLH-22DF	CLH-22NF	Female	Straight
Ultra Lo			CLH-42DM	CLH-42NM	Male	Straight
		HFSC-12D   CHFS-12DN     ½" Super Flexible Foam Dielectric   CHFS-12DN     Copper Corrugated Outer   CHFS12DM     Conductor   CHFS12DM     LHF-12D   CLH-12DM     ½" Low Loss Feeder Dielectric   CLH-12DM     Conductor   CLH-12DM     ½" Low Loss Feeder Dielectric   CLH-12DM     Conductor   CLH-12DM     LHF-33D   CLH-33DM     1¼" Low Loss Feeder Dielectric   CLH-33DM     Conductor   CLH-33DM     1¼" Uow Loss Feeder Dielectric   CLH-33DM     Conductor   CLH-22DM     ½" Ultra Low Loss Feeder   CLH-22DM     ½" Ultra Low Loss Feeder   CLH-22DM     Uter Conductor   CLH-22DM     LHF-42DUF   CLH-42DM     1½" Ultra Low Loss Feeder   CLH-42DM     Dielectric Copper Corrugated   CLH-42DM	CLH-42DF	CLH-42NF	Female	Straight

**ADAPTER KITS** 

Part

Number

RM-A100

RM-A300

SA-SS200

SA-SS300

L-SA-38

AA-SL

#### HANGER KITS

	Part Number	Description	Unit of Measure
σ	LBHS12NH	1/2" Cable Standard Hangers	Kit of 10
Standard	LBHS22NH	⅔" Cable Standard Hangers	Kit of 10
tan	LBHS33NH	1¼" Cable Standard Hangers	Kit of 10
S	LBHS42NH	1%" Cable Standard Hangers	Kit of 10
U	L-SH-S12	1⁄2" Cable Stackable Snap-In Hangers	Kit of 10
Stackable Snap-In	L-SH-S22	%" Cable Stackable Snap-In Hangers	Kit of 10
tack	L-SH-S33	1¼" Cable Stackable Snap-In Hangers	Kit of 10
N° N	L-SH-S42	1%" Cable Stackable Snap-In Hangers	Kit of 10

	Part Number	Description	Unit of Measure
	L-SH-U12	1⁄2" Cable Universal Snap-In Hangers	Kit of 10
iversal Iap-In	L-SH-U22	⅔" Cable Universal Snap-In Hangers	Kit of 10
niv	L-SH-U33	1¼" Cable Universal Snap-In Hangers	Kit of 10
	L-SH-U42	15%" Cable Universal Snap-In Hangers	Kit of 10

#### OTHER ACCESSORIES

Unit of

Measure

Kit of 10

Kit of 10

Kit of 10

Kit of 10

Kit of 10 Kit of 10

	Part Number	Description	Unit of Measure
рg	L-GK-C12	1/2" Cable Grounding Kit – Clip-on Type	Kit
Grounding	L-GK-C22	%" Cable Grounding Kit - Clip-on Type	Kit
Gro	L-GK-C42	15/8" Cable Grounding Kit – Clip-on Type	Kit
	L-HG-12	½" Cable Hoisting Grip – Lace-Up	Each
S	L-HG-22	‰″ Cable Hoisting Grip − Lace-Up	Each
Hoisting Grips	L-HG-33	1¼″ Cable Hoisting Grip - Lace-Up	Each
ng Ng	L-HG-42	15%" Cable Hoisting Grip - Lace-Up	Each
isti	L-HG-12L	1⁄2" Cable Hoisting Grip – Pre-Laced	Each
Η	L-HG-22L	%" Cable Hoisting Grip - Pre-Laced	Each
	L-HG-42L	15⁄8" Cable Hoisting Grip - Pre-Laced	Each
	L-CT-12D	1⁄2" Cable Cutting Tool – LHF and HFAC	Each
<u>s</u>	L-CT-12DS	1⁄2" Cable Cutting Tool – HFSC	Each
Tools	L-CT-22D	⅔″ Cable Cutting Tool – LHF	Each
	L-FT-42D	15%" Cable Cutting Tool – LHF	Each
	L-WK-U	Universal Weatherproofing Kit	Kit
ons	GB0424TU	Ground Bus Bar Kit	Kit
Miscellaneous	WPSANT12D	Weather Proofing Shell - Antenna to ½" DIN	Each
lisc	WPS12158D	Weather Proofing Shell – ½" to 1%" DIN	Each
2	WATS-38	Anti-Theft Hardware Kit	Kit

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Description

1" to 2" Round Adapters

3" to 4" Round Adapters

1<sup>1</sup>/<sub>2</sub>" to 3<sup>1</sup>/<sub>2</sub>" Stand-Off Adapters

2" to 4.5" Stand-Off Adapters

3-Way Stand-Off Adapters

Angle Adapters



	Cable Assembly	Interface Type			
Part Number <sup>1</sup>	Size and Type	End 1	End 2		
J12-xDMDM		DIN Male	DIN Male		
J12-xNMNM		N Male	N Male		
J12-xDMDF	½″ HESC	DIN Male	DIN Female		
J12xNMNMR	72 11150	N Male	N Male Right Angle		
J12xDMDMR		DIN Male	DIN Male Right Angle		

<sup>1</sup>Where "x" = jumper cable length is 1 - 6 Meters.



(10)

#### •— HYBRID / FIBER

#### DAS HYBRID

Product Name	Part Number	Conductor Count	Conductor Type	AWG (mm)	Fiber Count	Fiber Type
DAS Hybrid Fiber + Copper, Plenum	F4C2-012U13-6991-CE5	4	19 x 0.185"	12 (2.05)	12	SMF TeraFlex® Bend Resistant G.657.A1
Interlock Armored DAS Hybrid Fiber + Copper, Plenum	F2C2-012U13-6991-CE5	4	19 x 0.185″	12 (2.05)	12	SMF TeraFlex Bend Resistant G.657.A1

#### FIBER-TO-THE-ANTENNA (FTTA)

Product Name	Part Number	Conductor Count	AWG (mm)	Fiber Component	Fiber Count
	53012K01Q				12
Fiber-to-the-Antenna (FTTA) OFNR	53024K01Q	-	-	Central tube	24
OFINK	53048K01Q				48
	GM012K221			Tight buffer	
Fiber-to-the-Antenna (FTTA) Hybrid Fiber + Power	GM012K111	6	8 (3.26)	Central tube	12
Hybrid Fiber + Fower	GM012K011			Loose tube	

#### PREMISES FIBER (LOOSE TUBE)

	Product Name	Listing	Part Number <sup>1</sup>	Configuration	Fiber Count	Package	EPD	HPD
		OFNID	P3***xx01	3 mm Round	2 - 12			
		OFNR	P3024xxA1	Duplex	24			
	Microarray Data Center		V4***xx01	2 mm Round	2 - 12			
	Interconnect	OFNP	P4***xx01	3 mm Round	2 - 12	Reel	V	V
		OFNP	P4024xxC1	3.8 mm Round	24			
			P4024xxA1	Duplex	24			
		0510	V4***xxB1	Multi-unit	24, 36	Reel		
	2 mm Microarray Breakout	OFNP	V4***xx01	Multi-unit	48, 144	Reel	V	V
DOs.	2 mm Interlock Armored,		L4***xVB1	Multi-unit	24, 36	Reel		
	Microarray Breakout	OFCP	L4***xV01	Multi-unit	48, 144	Reel	V	-
		OFNID	P3024xxB1		24			
		OFNR	P3***xx01	Multi-unit	48 - 144			
	3 mm Microarray Breakout		P4024xxB1		24	Reel	V	V
		OFNP	P4***xx01	Multi-unit	48 - 144			
			L3024xPB1		24			
	3 mm Interlock Armored,	OFCR	L3***xP01		48 - 144			
	Microarray Breakout		L4024xPB1	Multi-unit	24	Reel	V	V
		OFCP	L4***xP01		48 - 144			

#### SUSTAINABILITY

Environmental Product Declaration (EPD) A source of transparent, scientifically-based information that discloses the potential environmental impact of a product or product family.

#### Health Product Declaration™ (HPD™)

A report that describes product contents and each ingredient's relationship to human and ecological health.

#### KEY

Single I	Single Mode Fiber (SMF) Types						
	TeraF	TeraFlex <sup>®</sup> Bend Resistant					
	G.657.A2	G.657.B3					
<sup>1</sup> Replace "x" with:	K	J	L				
<sup>1</sup> Replace "xx" with:	K1	J1	L1				
Premises Jacket Colors		Yellow					

Multimode Fiber (MMF) Types					
	TeraFlex Bend Resistant LaserOptimized 50/12510G/15010G/30010G/550				
<sup>1</sup> Replace "x" with:	Μ	N	Р		
<sup>1</sup> Replace "xx" with:	MG	NG	PG		
Premises Jacket Aqua					

<sup>1</sup>Where "\*\*\*" = fiber count (i.e. 002, 004, 006, 008, 012, 018, 024, 036, 048, 060, 072, 096, 144) and "x" or "xx" = fiber type (refer to key below).

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KEY

#### PREMISES FIBER (TIGHT BUFFER)

		Fiber						Single Mode Fiber (SMF) Types						
	Product Name	Listing	Part Number <sup>1</sup>	Configuration	Count	Package	EPD	HPD			Reduced	TeraF	lex® Bend R	esistant
		OFNR	33***xx01	3 mm Round	1			2 12			Vater Peak	G.657.A	1 G.657.A2	G.657.B
			A3001xx01	2 mm Round	1	Reel			<sup>1</sup> Replace "x" wi	th:	3	K	J	L
			B3002xx01	3 mm Zip	2	Reel			<sup>1</sup> Replace "xx" w	ith:	31	K1	J1	L1
			C3002xx01	2 mm Zip	2				Premises Jacket Colors Yellow					
	Simplex, Duplex and		33***xxyy	Round	2, 4	Refer to key			I/O Jacket Col	or		Bla	ack	
	Quad Interconnect		34***xx01	3 mm Round	1									
			A4001xx01	2 mm Round	1				Multimode Fiber (MMF) Types					
		OFNP	B4002xx01	3 mm Zip	2	Reel				iviaitiin	TeraFlex Bend Res			istant Lasor
			C4002xx01	2 mm Zip	2					Т	eraGain®		Optimized 50/125	
			34***xxyy	Round	2, 4	Refer to key						10G/150	10G/300	10G/550
	Single Unit Distribution	OFNR	43***xxyy	Single unit	6, 8, 12	Refer to key		ß	<sup>1</sup> Replace "x" wi		6	Μ	Ν	Р
			43***xK01		18, 24	Reel			<sup>1</sup> Replace "xx" w		6G	MG	NG	PG
		OFNP	44***xxyy		6, 8, 12	Refer to key			Premises Jacket C		Orange		Aqua	
			44***xK01		18, 24	Reel			I/O Jacket Col	or		Bla	ack	
	Rugged Indoor/		D5001L5yy	Round	1	Refer to key	ey 💋	3	Packaging Options					
	Outdoor MDU	OFNR								Cut to L	0 0	1,000 ft	1,500 ft	2,000 ft
	Indoor/Outdoor Sunlight Resistant	OFNP	W4***xxyy		2 - 12	Refer to key	er to key			Plywoo	od reel B	rakeBox	BrakeBox	BrakeBo
			W4024xK01	Single unit	24				<sup>1</sup> Replace "yy" with:	0	1	BB	BD	BC
			24***xx01	Multi-unit	18 - 72	Reel								
	Single Unit, Interlock Armored, Tight Buffer	OFCR	L3***x301			2, 4 6, 8, 12								
			L3***x401	Single unit										
			L3***xK1Q		18, 24									
		OFCP	L4***x301		2, 4	Reel	V							
			L4 x301	Single unit	6, 8, 12									
			L4***xK1Q		18, 24									

<sup>1</sup>Where "\*\*\*" = fiber count (i.e. 002, 004, 006, 008, 012, 018, 024, 036, 048, 060, 072, 096, 144) and "x" or "xx" = fiber type (refer to keys below).

#### **OSP FIBER**

Product Name	Series	Features	Part Number <sup>1</sup>	Fiber Count
Loose Tube Single Jacket Single Armor	12D	Dri-Lite gel-free	12***xD0b	6 - 288
	12	PFM gel-filled	12***xz0b	2 - 288

<sup>1</sup>Where "\*\*\*" = fiber count (i.e. 002, 004, 006, 008, 012...), "x" = fiber type, "z" = special attribute, "b" = jacket print code and "0" = standard product (refer to keys below).

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### •--- PREMISES / OUTSIDE PLANT COPPER -

#### PREMISES COPPER

	Product Name	Listing	Part Number <sup>1</sup>	Package	EPD	HPD
there		CMR	6H-272-xA	1000/0	Ø	V
and the second	10Gain <sup>®</sup> XP CAT 6A	CMP	6H-272-xB	1,000' Reel		
	<b>10G</b> ain CAT 6A	CMR	6A-272-xA	1.000' Reel	ø	V
	IUGain CAT 6A	CMP	6A-272-xB	1,000 Reel		
	Next Calue® CAT (a)	CMR	54-246-xA	1,000' BrakeBox®	ø	K
	NextGain® CAT 6eX	CMP	54-246-xB	1,000' BrakeBox		
		CLUD	66-246-xA	1,000' BrakeBox	Ø	V
	DataGain® CAT 6+	CMR	66-240-xA	1,000′ POP™ box		
	Datagain® CAT 6+		66-246-xB	1,000' BrakeBox		
		CMP	66-240-xB	1,000' POP box		
		CLUD	77-246-xA	1,000' BrakeBox	Ø	V
		CMR	77-240-xA	1,000' POP box		
	CAT 6	СМР	77-246-xB	1,000' BrakeBox		
			77-240-xB	1,000' POP box		
	Interlock Armored Premises Copper CAT 6 (single component)	CMR	K4-199-xA <sup>2</sup>	100000	-	-
			L4-199-xA <sup>3</sup>	1,000' Reel		
	Interlock Armored Premises Copper CAT 6 (dual component)	CMR	K4-299-SA <sup>2</sup>	1,000' Reel	-	-
			L4-299-SA <sup>3</sup>			
			52-200-x5	1,000' Reel-in-a-Box	Ø	
		CMR	52-240-x5	1,000' POP box		
	Cobra CAT 5e+	CMP	52-200-x8	1,000' Reel-in-a-Box		
			52-241-x8	1,000' POP box		
			51-243-x5	1,000' Reel-in-a-Box		
	Marathan LAN® CAT La	CMR	51-240-x5	1,000' POP box		
	Marathon LAN® CAT 5e	СМР	51-243-x8	1,000' Reel-in-a-Box		9
			51-241-x8	1,000' POP box		

#### KEY

Standard Jacket Colors								
<sup>1</sup> Replace "x" with:	Blue = 2		White = 4					
Non-standard Jacket Colors <sup>4</sup>								
Green = 5	Yellow = 6	Purple = 7	Red = 9					

Orange = D Black = E

<sup>4</sup>Non-standard jacket colors and other packaging options (types and lengths) available with minimum order quantity and lead time.

<sup>1</sup>Where "x" = jacket color (see color key below). <sup>2</sup>No outer jacket. <sup>3</sup>With outer jacket. For single component cables, the outer jacket color matches the internal component jacket color. For dual component cables, the standard outer jacket color is Blue.

#### **OSP COPPER**

(13)

Produc	ct Name	Category	Part Number	Product Code	Shield	Package
	OSP Broadband BBDG <sup>1</sup>	CAT 6A	04-001-A5	BBDG6A	Copper-clad steel	1,000' Reel
OSP E		CAT 6	04-001-65	BBDG6		
		CAT 5e	04-001-55	BBDGe		
OSP E	Broadband Duplex	CAT 5e	04-A01-55	BBDGe	Copper-clad steel	1,000' Reel

<sup>1</sup>Also available with optional aluminum interlock armor with overjacket upon request.

Detailed information for each product can be found in its product data sheet, which is available either at SuperiorEssex.com or upon request. All information, content, data, specifications, packaging and part numbers detailed herein are subject to change. For the most up-to-date information, please visit SuperiorEssex.com, Purchase of this product is subject exclusively to the then current Superior Essex International LP Terms and Connectivity Products, which can be found on our website, SuperiorEssex.com, or provided to you upon request.

## **About Superior Essex**

Superior Essex International LP is a leading manufacturer and supplier of communications and energy cables and accessories. With a complete portfolio of high-performance products manufactured in the U.S.A., and over eighty years serving the communications and energy markets, Superior Essex has the expertise and experience to meet all your cabling needs.

## **Our Commitments to Transparency and Sustainability**

Superior Essex is firmly committed to environmental responsibility and transparency, and we constantly strive to lead innovation and design toward sustainable product solutions.

We are the first wire and telecommunications cable manufacturer to conduct an independent full Life Cycle Assessment examining the environmental impact of our high performance copper and optical fiber data cabling products, including our raw materials, manufacturing, transportation, installation and end of life practices.

We are also the first in our industry to contribute toward LEED certification by offering Environmental Product Declarations (EPD) and Health Product Declarations<sup>™</sup> (HPD<sup>™</sup>) for our premises copper and optical fiber cable products. Additionally, we offer Multi-attribute Certifications for our premises copper products, which provide transparency into our manufacturing processes and help government procurement agents meet their sustainability goals by simplifying the sustainable supplier selection process.

As the first and only sustainable and transparent cable manufacturer, we are the preferred choice for all enterprises relying on sustainable cabling solutions.









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6120 Powers Ferry Road, Suite 150 Atlanta, Georgia 30339

> P 770.657.6000 T 800.551.8948 F 877.291.7919

SuperiorEssex.com