### New EMEA FO Cable Part Number Scheme

Jan Ziegler Manager LAN Marketing Enterprise Networks EMEA

April 2014

## Time for Change

LCXLIxxxxxxxx **FWLTxxxxxxxx** SAP123456

012TEC-13188A20





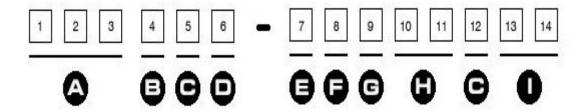
Former fibre optic cable part numbers in EMEA came from several historical sources, were inconsistent and regional limited.

The new part number scheme is consistent and globally aligned.



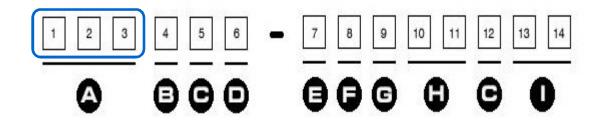
### What does the new scheme look like?

Corning optical cable part numbers in EMEA will have the following format:



- A. Fibre Count (Digits 1-3)
- B. Fibre Type (Digit 4)
- C. Cable Construction (Digits 5 & 12)
- D. Central Member / Outer Jacket / Flammability Listing (Digit 6)
- E. Fibre Placement (Digit 7)
- F. Unit Colour / Fibre Colour / Length Marking (Digit 8)
- G. Tensile Rating / Twisted Pairs / Subunit Diameters (Digit 9)
- H. Transmission Options (Digits 10 & 11)
- I. Special Manufacturing Needs (Digits 13 & 14)

# walk through example: 012xxx-xxxxxxx



Digit 1 – 3 (Section A) - Fibre Count

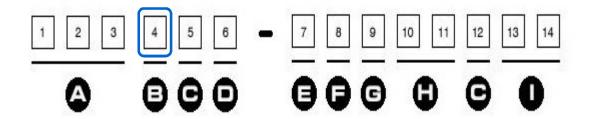
001 = 1 Fibre

012 = 12 Fibres

144 = 144 Fibres

. . .

# walk through example: 012Txx-xxxxxxx

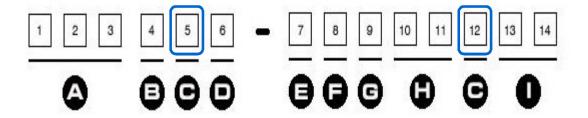


Digit 4 (Section B) - Fibre Type

	Short	Brand	Code		Short	Bran
4)	E9	SMF-28e+®	E		OM1	Infin
qe	E9LL	SMF-28e+® LL	L	de	OM2CC	Clear
2	E9ULL	SMF-28® ULL	Р	Õ	OM3CC	Clear
Singlemode	E9U	SMF-28® Ultra	Z	<u>=</u>	OM4CC	Clear
g	E9XB	ClearCurve® XB	Н	Multi		
Ë	E9LBL	ClearCurve® LBL	J	Ē		
0,	E9ZBL	ClearCurve® ZBL	U	<del>_</del>		
	E10	LEAF®	F			

Short	Brand	Code
OM1	InfiniCor® 300	K
OM2CC	ClearCurve® OM2	T
OM3CC	ClearCurve® OM3	T
OM4CC	ClearCurve® OM4	T

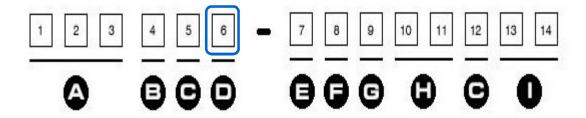
# Let's look at the details – Digit 5 & 12 walk through example: 012TEx-xxxxxAxx



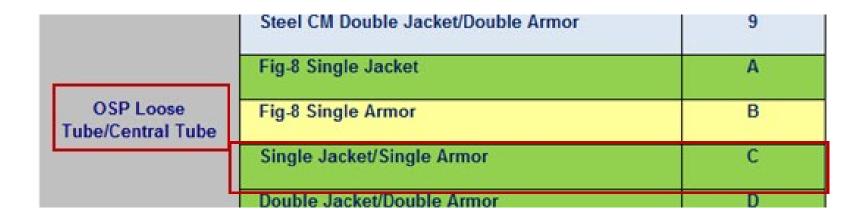
Digit 5 & 12 (Section C) - Cable Construction

	Gel-filled Central Tube LDPE	Е	Α
OSP Single Tube	Gel-free Central Tube LDPE	E	D
Cables	Gel-filled Central Tube HDPE	E	Р
	Gel-free Central Tube HDPE	E	Q

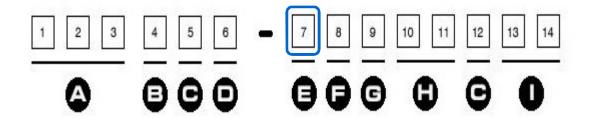
# walk through example: 012TEC-xxxxxAxx



Digit 6 (Section D) - Central Member / Outer Jacket / Flammability Listing



# walk through example: 012TEC-1xxxxAxx

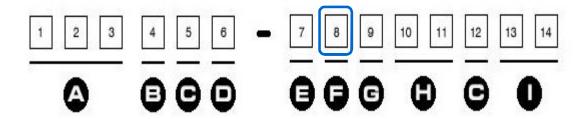


Digit 7 (Section E) - Fibre Placement

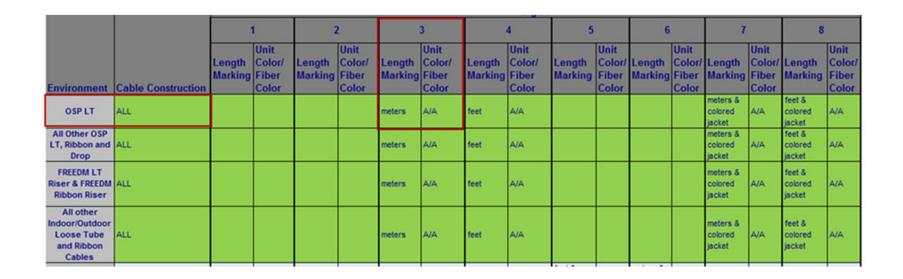
Central Tube Cable/(outdoor TB construction)

	Digit 7	Total Fiber Count	Tube Size
Standard Configuration	1	ALL	Standard or ?
	2	ALL	2.5 MM
	3	ALL	3.0 MM
	4	ALL	3.5 MM
2	5	ALL	5.0 MM
	Н	ALL	Internal Sales Only

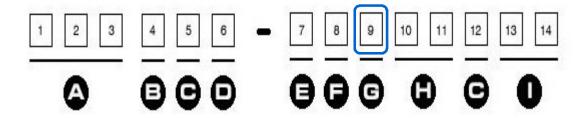
# walk through example: 012TEC-13xxxAxx



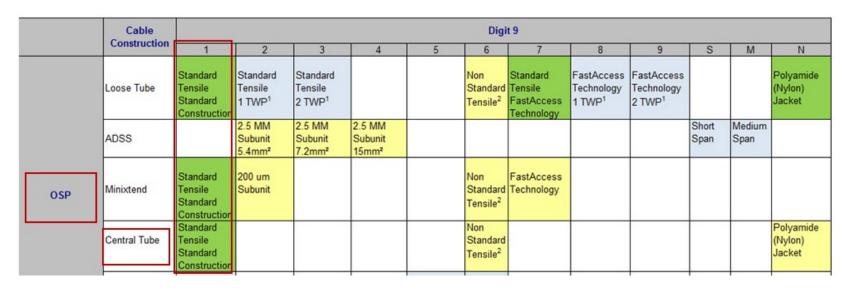
Digit 8 (Section F) - Unit Colour / Fibre Colour / Length Marking



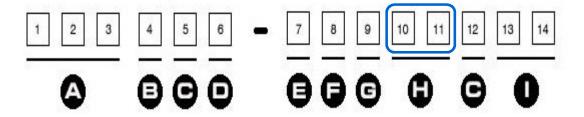
walk through example: 012TEC-131xxAxx



Digit 9 (Section G) - Tensile Rating / Twisted Pairs / Subunit **Diameters** 



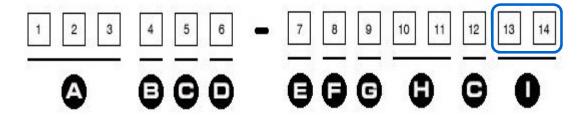
walk through example: 012TEC-13188Axx



Digit 10-11 (Section H) - Transmission Options

		for All Cable		Std.	Attenu	ation	Bandy	vidth	High Perf laser-based	Street Street Street Street	Data I	Rate over Dis	stance (me	eters)
	Digits 10			Jacket	(dB/	km)	(MHz	km)	(MHz	/km)	10	GbE	10GbE	25GbE
Digit 4	& 11	Fiber Name	Fiber Type	Color^	@850 nm	nm	@850 nm	nm	@850 nm	@1300 nm	@850 nm	@ 1300 nm	@850 nm	@850 nm
T	31	Clearcurve® OM2	50 um	Orange	Table	below	700	500	950		750	600	150	
Т	80	Clearcurve® OM3	50 um	Aqua	Table	below	1500	500	2000		1000	600	300	
Т	89	Clearcurve® OM4	50 um	Aqua	Table	below	1500	500	4700		1000	600	550	
Т	90	Clearcurve® OM4	50 um	Aqua	Table	below	3500	500	4700		1000	600	550	
K	30	LANscape 62.5	62.5 um	Orange	3.4	1.0	200	500	220		300	550	33	
K	50**	LANscape 62.5+	62.5 um	Orange	3.4	1.0	200	500	385		500	1000	33	
T	38	Clearcurve® OM2	50 um	Orange	2.8	1.0	700	500	950		750	600	150	
T	88	Clearcurve® OM3	50 um	Aqua	2.8	1.0	1500	500	2000		1000	600	300	
T	98	Clearcurve® OM4	50 um	Aqua	2.8	1.0	3500	500	4700		1100	600	550	
K	08	LANscape 62.5	62.5 um	Orange	3.1	0.8	200	600	220		300	550	33	
					700	) um Buffe	ring (EMEA	Only)						
T	37	Clearcurve® OM2	50 um	Orange	2.8	1.0	700	500	950		750	600	150	
T	87	Clearcurve® OM3	50 um	Aqua	2.8	1.0	1500	500	2000		1000	600	300	
Т	97	Clearcurve® OM4	50 um	Aqua	2.8	1.0	3500	500	4700		1100	600	550	
K	07	LANscape 62.5	62.5 um	Orange	3.1	0.8	200	600	220		300	550	33	

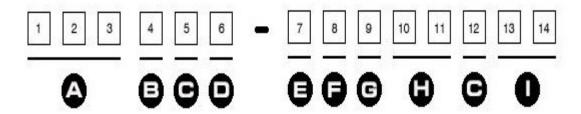
walk through example: 012TEC-13188A20



Digit 13-14 (Section I) - Special Manufacturing Needs

0F	Mfg	Ribbon cable Fibers have no TB2 slip layer
	Print	Fiber Count and Fiber Type, 1AW Appendix 1
	Drop Cables:	
	Print	Drop Cables printed with Ink Jet printers must include unique cable ID number in print statement. (Print Shop Order number on jacket.)
	OSP Loose Tube Cables	
	Print	ALTOS Cable with FastAccess Technology (Digit 9 = "7") must include an identifier of "ALTOS® CABLE WITH FASTACCESS(TM) TECHNOLOGY" in the print statement (placed at the end of the print string)
20	Gel-Free Ribbon Cables:	
	Print	"GEL-FREE" printed on Outer Jacket immediately following SOC Code Fiber Count on Outer Jacket, e.g. "144F"  "SME" printed on jacket following fiber count for all cables with an "E" in digit 4 of the part number.
	VSDN Cables	VSDN cables with Mfg Code "20" have no print on the cable jacket
	Non-AOC Cables with VSDN Fiber	Fiber Count and Fiber Type, "Coming Optical Communications", 1AW Appendix 1
22	Print	Print "LGN 1-866-FIBRCUT" Fiber Count and Fiber Type, IAW Appendix 1

### Let's look at the details – voila!



012TEC-13188A20

Old part number: FWCT01-S0012-H003

New short text: A-DQ(ZN)(SR)2Y 12F OM3CC CT3.0

New long text: SST™ Central Tube Steel Armour Outdoor Cable

12F G50 MMF ClearCurve® OM3 CT 3.0

### What else changes?

#### Definition of EMEA Cable Brands

We defined brands for many formerly unbranded cable types in accordance to our global approach, using brands like SST, ALTOS, FREEDM and MIC as well as sub-brands like MiniXtend.

New Description (including new branding)	Old Code	New Code
FREEDM™ Gel-Free Central Tube Indoor/Outdoor Cable	A-BQ(BN)H	U-BQ(ZN)BH
FREEDM™ Tight Buffer Dielectric Armour Indoor/Outdoor Cable	A-VQ(BN)H	U-VQ(ZN)BH
FREEDM™ Tight Buffer Indoor/Outdoor Cable	A-VQH	U-VQ(ZN)H
MIC® Tight Buffer Indoor Cable	J-VH	J-V(ZN)H

### What else changes?

Update of EMEA Cable Coding

We replaced our previous coding following DIN VDE 0888-3 with a new coding according to EN 60794-1-1 (DIN VDE 0888-100-1).

New Description (including new branding)	Old Code	New Code
FREEDM™ Gel-Free Central Tube Indoor/Outdoor Cable	<del>A-BQ(BN)H</del>	U-BQ(ZN)BH
FREEDM™ Tight Buffer Dielectric Armour Indoor/Outdoor Cable	<del>A-VQ(BN)H</del>	U-VQ(ZN)BH
FREEDM™ Tight Buffer Indoor/Outdoor Cable	<del>A-VQH</del>	U-VQ(ZN)H
MIC® Tight Buffer Indoor Cable	<del>J-VH</del>	J-V(ZN)H

### What else changes?

### Universal Text Sequences

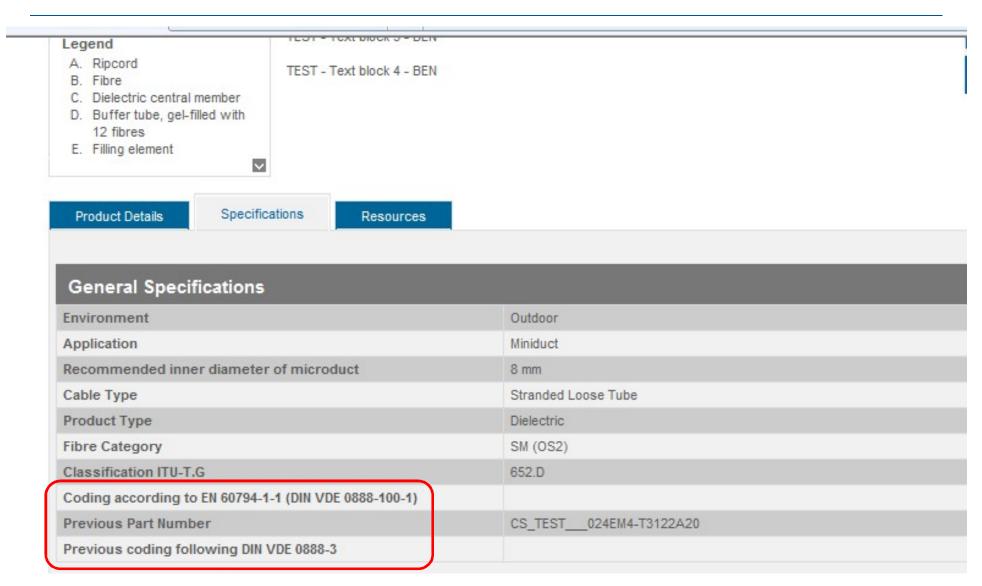
Based on the brands and the new coding, we defined three descriptive text sequences for synced use in all systems:

- Universal Short Text, based on new coding
- British English Long Text
- German Long Text

### Amended Cable Printing

Based on the brands and the new coding, we also defined aligned cable printing sequences for all Fibre Optic cables produced in EMEA.

### How will this look online?



# How will this look printed?

### **CORNING**

#### TEST SYSTEM CI2

#### Quotation

31200950

24.03.2014

Item	Material		Description			
		Qty	Price	Price	unit	Value
000010	599019		A-DQ(ZN)(SR)2Y 1	2F E9 CT3.0		
	Catalog N	No.:	012EEC-1312	2A20		
			FWCT 01-S0012	2-U003		
	Minimum Or	der Quantity:	6,000 MTR	l .		
	2,0	000.000 MTR	598.55	EUR 1,000	MTR	1,197.10
	General I		applied to the	Price.		
	1	ral Tube Stee TU G652.D CT	l Armour Outdoor 3.0	Cable 12F E9	SMF	

### What does this mean for the LAN Core Products?

Fibre Typ	oe .			Fibre Co	unt			Cable D	esign			
мм ом2	мм омз	MM OM4	SM OS2	4 Fibre	12 Fibre	24 Fibre	48 Fibre	250µm	900µm	Gel-free	Part Number	Description
1.1 FREED	.1 FREEDM Tight Buffer Indoor/Outdoor Cable: Gel-free tight buffer, 900µm, TB3, LSZH "/FRNC jacket, for direct termination (UniCam* Connectors), U-VQ(ZN)H											
											012T8X-32138E2G	12x MM/OM2 CC TB
											024T8X-32138E2G	24x MM/OM2 CC TB
											012T8X-32188E2G	12x MM/OM3 CC TB
					10						024T8X-32188E2G	24x MM/OM3 CC TB
											012T8X-32198E2G	12x MM/OM4 CC TB
			3								024T8X-32198E2G	24x MM/OM4 CC TB
											012E8X-32125E2G	12x SM/OS2 E9 TB (SMF-28e+®)
	_										024E8X-32125E2G	24x SM/OS2 E9 TB (SMF-28e+)
1.2 MIC®	Tight Buffe	er Indoor C	able: Gel-fr	ee tight buffe	r, 900µm, TB3,	LSZH/FRNC ja	cket, for direc	t termination	n (UniCam Co	onnectors), J-	V(ZN)H	
											004T8Z-32138E2G	4x MM/OM2 CC TB
			9:								012T8Z-32138E2G	12x MM/OM2 CC TB
											024T8Z-32138E2G	24x MM/OM2 CC TB
						) (f)					004T8Z-32188E2G	4x MM/OM3 CC TB
			0.00								012T8Z-32188E2G	12x MM/OM3 CC TB
											024T8Z-32188E2G	24x MM/OM3 CC TB
											004T8Z-32198E2G	4x MM/OM4 CC TB
											012T8Z-32198E2G	12x MM/OM4 CC TB
43			4		2.						024T8Z-32198E2G	24x MM/OM4 CC TB
											004E8Z-32125E2G	4x SM/OS2 E9 TB (SMF-28e+)
											012E8Z-32125E2G	12x SM/OS2 E9 TB (SMF-28e+)
2 8											024E8Z-32125E2G	24x SM/OS2 E9 TB (SMF-28e+)

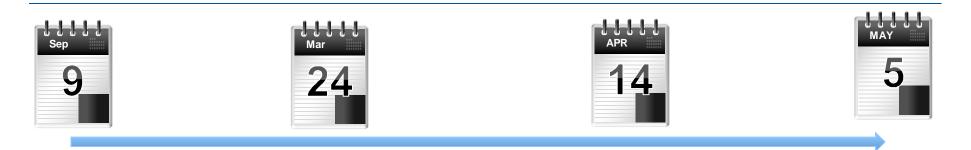
### What does this mean for the LAN Core Products?

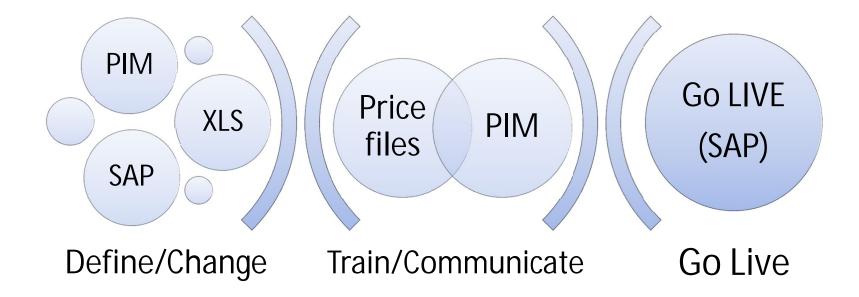
Fibre Typ	oe			Fibre Co	unt			Cable I	)esign			
MM OM2	мм омз	MM OM4	SM OS2	4 Fibre	12 Fibre	24 Fibre	48 Fibre	250µm	900µm	Gel-free	Part Number	Description
1.3 FREED	M <sup>™</sup> Gel-Fre	ee Central 1	Tube Indo	or/Outdo	or Cable: Gel	-free tubes, 250	µm, LSZH*/FRN	NC jacket, fus	ion splicing	with pigtails	or Fan-Out Kits with UniCam*	Connectors, U-BQ(ZN)BH
											004TEU-13138D2G	FREEDM™ 4x MM/OM2 CC gel-free CT
											012TEU-13138D2G	FREEDM 12x MM/OM2 CC gel-free CT
			ie)								004TEU-13188D2G	FREEDM 4x MM/OM3 CC gel-free CT
											012TEU-13188D2G	FREEDM 12x MM/OM3 CC gel-free CT
			(e)								004TEU-13198D2G	FREEDM 4x MM/OM4 CC gel-free CT
											012TEU-13198D2G	FREEDM 12x MM/OM4 CC gel-free CT
	4.										004EEU-13122D2G	FREEDM 4x SM/OS2 E9 gel-free CT (SMF-28e+ *)
											012EEU-13122D2G	FREEDM 12x SM/OS2 E9 gel-free CT (SMF-28e+)
1.4 Centr	al and Loos	se Tube Die	electric Arı	mour Indo	or/Outdoo	r Cable: Gel-	filled tubes, 250	Dμm, LSZH/F	RNC jacket,	for fusion spl	licing with pigtails, U-DQ(ZN)	ВН
			(4)								024TEU-13138A2G	24x MM/OM2 CC CT
											048TRU-T3138A2G	48x MM/OM2 CC SLT
			86								024TEU-13188A2G	24x MM/OM3 CC CT
	V.		(c)	6							048TRU-T3188A2G	48x MM/OM3 CC SLT
			50 50								024TEU-13198A2G	24x MM/OM4 CC CT
	43		~	43							048TRU-T3198A2G	48x MM/OM4 CC SLT
											024EEU-13122A2G	24x SM/OS2 E9 CT (SMF-28e+)
											048ERU-T3122A2G	48x SM/OS2 E9 SLT (SMF-28e+)

## Cross Reference Table (Excel Format)



### **Overall Schedule**





### Key Milestones



Data load into SAP (Test System) Start of Price List communication



Go live date of the new scheme in our online catalogue (PIM)



Data load into SAP (Production System)



Go live date of the new scheme in SAP

### In a nutshell

- All EMEA fibre optic cable part numbers change
  - This does not affect customised products!
- Some EMEA fibre optic cables get a new/changed brand name
- All EMEA fibre optic cables get a new coding according to EN 60794-1-1
- Our online catalogue will change Mid of April 2014
- Our ordering system will change Beginning of May 2014
- Both systems will carry references to the former status for 12 months
- Public launch happens through our April newsletter
- Please register now: http://www.corning.com/opcomm/emea/en/newslettersubscription.aspx



# CORNING