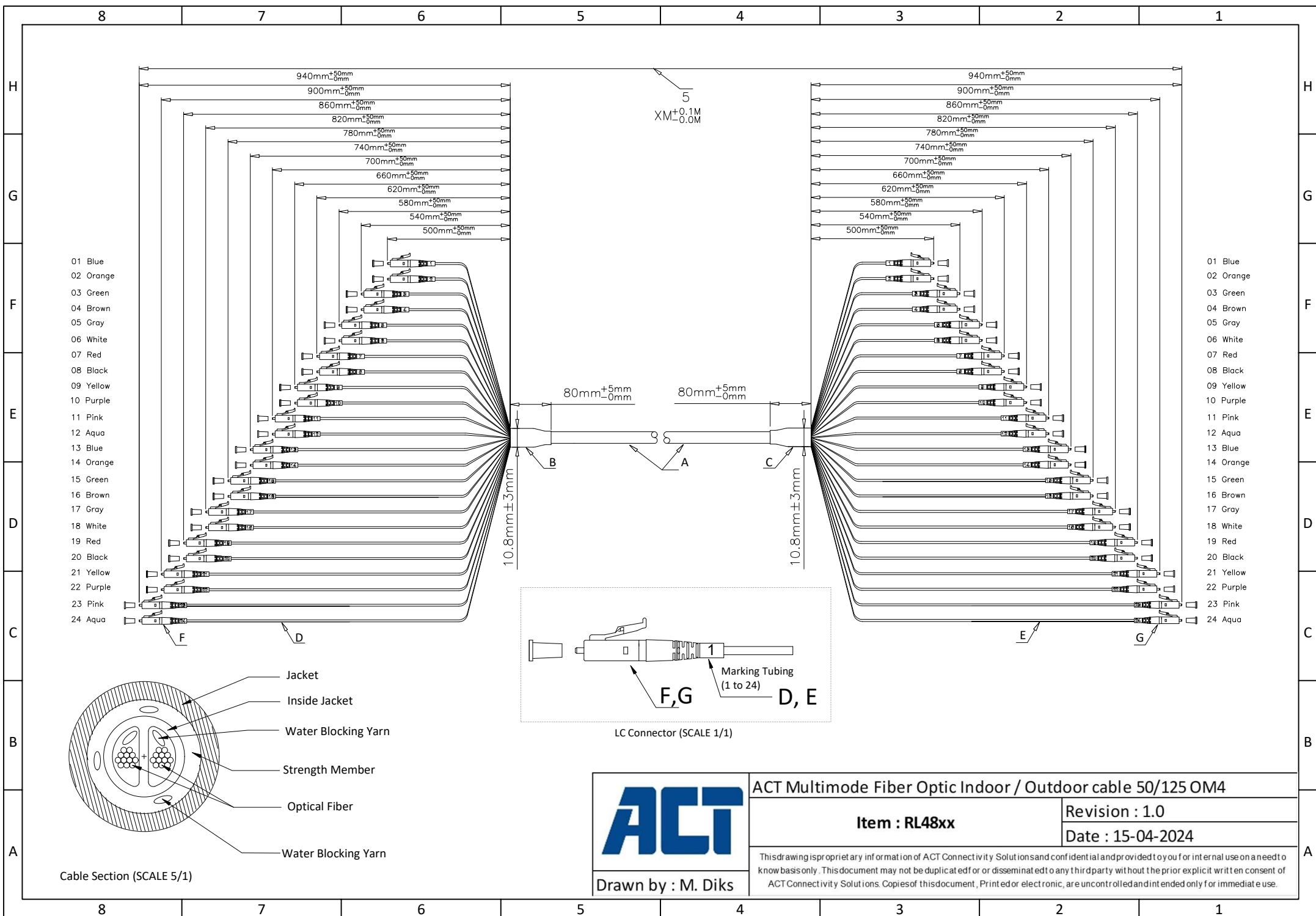
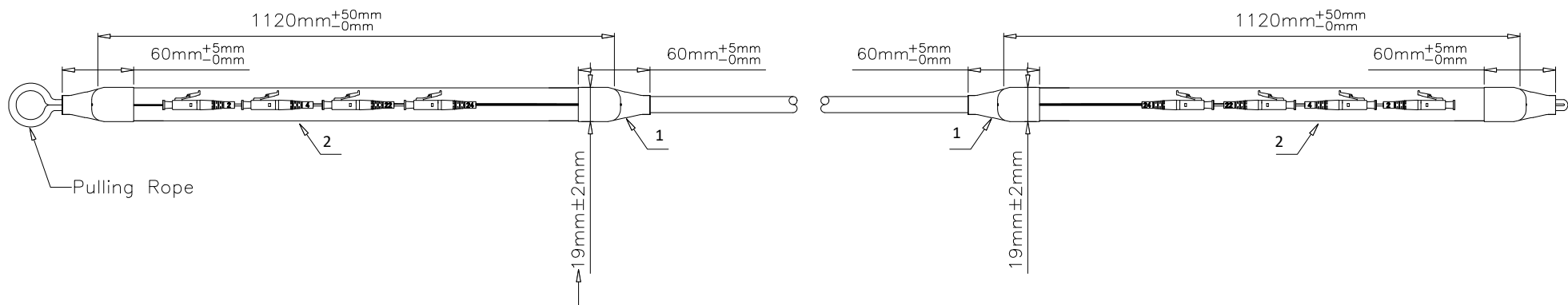




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 ACT Multimode Fiber Optic Indoor / Outdoor cable 50/125 OM4 Item : RL48xx Revision : 1.0 Date : 15-04-2024 This drawing is proprietary information of ACT Connectivity Solutions and confidential and provided to you for internal use on a need to know basis only. This document may not be duplicated or disseminated to any third party without the prior explicit written consent of ACT Connectivity Solutions. Copies of this document, Printed or electronic, are uncontrolled and intended only for immediate use. Drawn by : M. Diks																																															
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Thickest part of assembly

Item	Length(m)	Item	Length(m)
RL48M5	5	RL4816	160
RL4801	10	RL4817	170
RL4802	20	RL4818	180
RL4803	30	RL4819	190
RL4804	40	RL4820	200
RL4805	50	RL4821	210
RL4806	60	RL4822	220
RL4807	70	RL4823	230
RL4808	80	RL4824	240
RL4809	90	RL4825	250
RL4810	100	RL4826	260
RL4811	110	RL4827	270
RL4812	120	RL4828	280
RL4813	130	RL4829	290
RL4814	140	RL4830	300
RL4815	150		

Specifications heat shrink tubing (1)	
Length	60mm
Specifications protective tube (2)	
Material	PVC
Color	Transparent
Dimensions	1120mm(+50mm -0mm) x 15mm x 18mm

Length (m)	Reel Weight (KG)	Reel dimension (mm)
120	1.7	327 (H) x 345 (ø)
121-240	1.9	327 (H) x 400 (ø)
241-330	2.8	330 (H) x 450 (ø)
331-420	3.1	330 (H) x 480 (ø)
≥421	3.3	400 (H) x 480 (ø)



Drawn by : M. Diks

ACT Multimode Fiber Optic Indoor / Outdoor cable 50/125 OM4

Item : RL48xx

Revision : 1.0

Date : 15-04-2024

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Specifications fiber	
Fiber type	Multimode
Fiber class	OM4
Diameter core / cladding	50/125
Specifications optical performance	
Insertion Loss (IL) typical	0.1 dB
Insertion Loss (IL) maximum	0.15 dB
Return Loss (RL)	≥ 35 dB
Standard compliances	
IEC 61754-20	Fibre optic connector interfaces - Type LC connector family
IEC 61300-3-47	Examinations and measurements - End face geometry of PC/APC spherically polished ferrules using interferometry
IEC 60794-2-20	Indoor cables - Family specification for multi-fibre optical cables
IEC 60794-1-2	Basic optical cable test procedures
IEC 60332-1-2	Test for vertical flame propagation for a single insulated wire or cable
IEC 60754-1	Determination of the halogen acid gas content
IEC 60754-2	Determination of acidity (by pH measurement) and conductivity
IEC 61034-2	Measurement of smoke density of cables burning under defined conditions



Drawn by : M. Diks

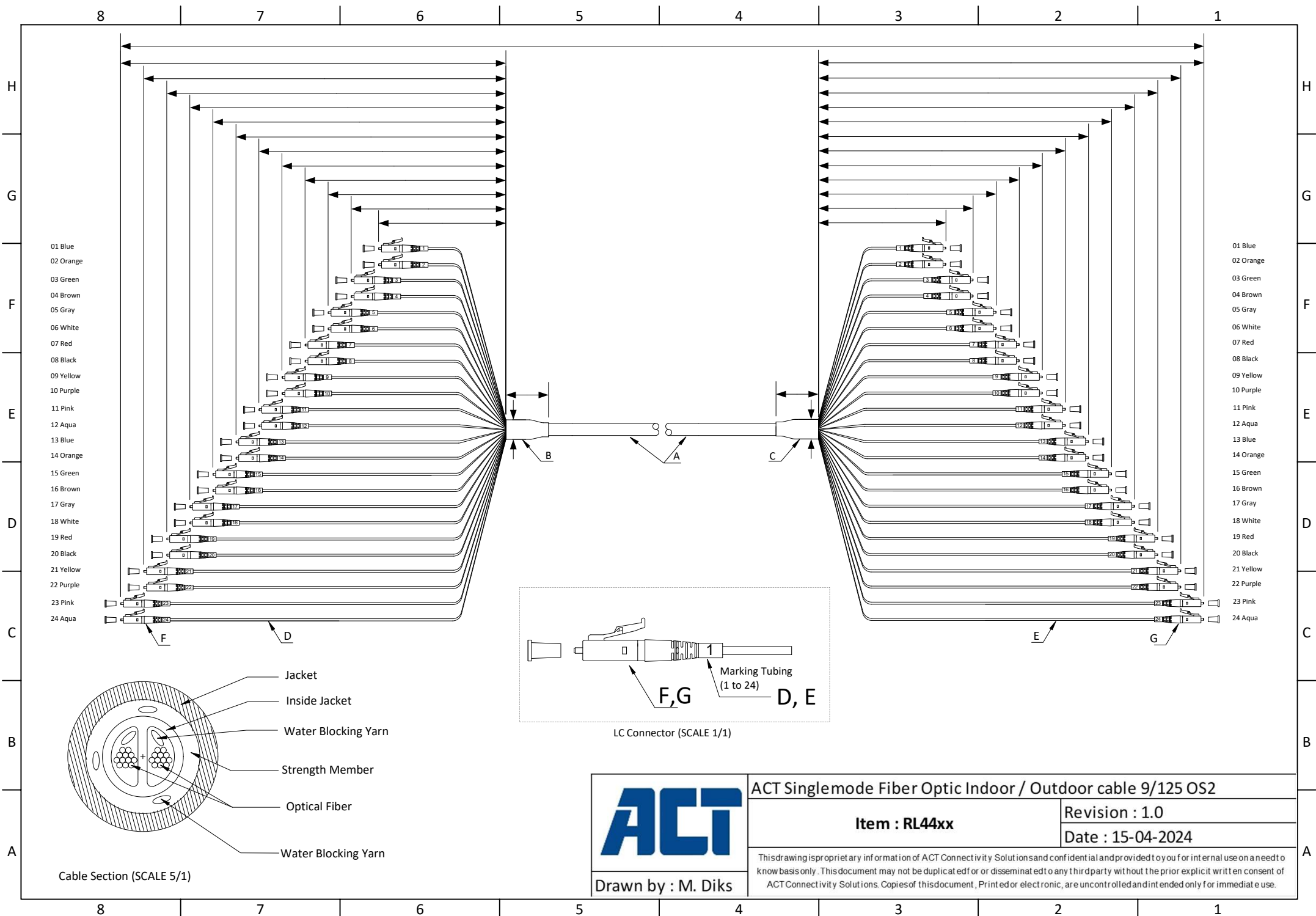
ACT Multimode Fiber Optic Indoor / Outdoor cable 50/125 OM4

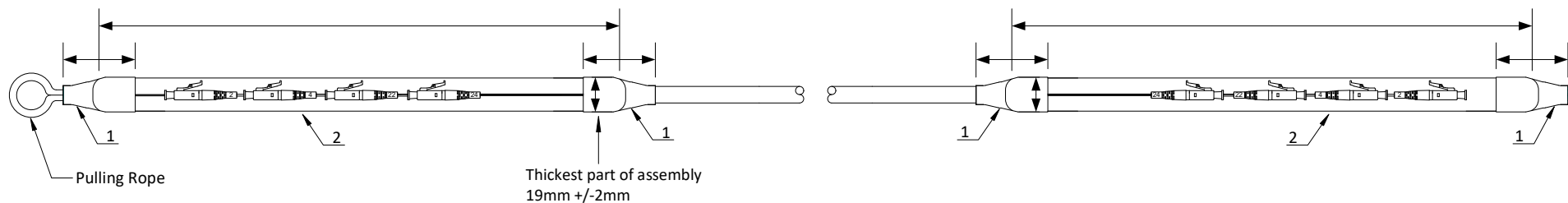
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Specifications heat shrink tubing (1)

Length	60mm
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Specifications protective tube (2)

Material	PVC
Color	Transparent
Dimensions	1120mm(+50mm -0mm) x 15mm x 18mm

Item	Length(m)	Item	Length(m)
RL44M5	5	RL4416	160
RL4401	10	RL4417	170
RL4402	20	RL4418	180
RL4403	30	RL4419	190
RL4404	40	RL4420	200
RL4405	50	RL4421	210
RL4406	60	RL4422	220
RL4407	70	RL4423	230
RL4408	80	RL4424	240
RL4409	90	RL4425	250
RL4410	100	RL4426	260
RL4411	110	RL4427	270
RL4412	120	RL4428	280
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RL4414	140	RL4430	300
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Length (m)	Reel Weight (KG)	Reel dimension (mm)
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241-330	2.8	330 (H) x 450 (ø)
331-420	3.1	330 (H) x 480 (ø)
≥421	3.3	400 (H) x 480 (ø)



Drawn by : M. Diks

ACT Singlemode Fiber Optic Indoor / Outdoor cable 9/125 OS2

Item : RL44xx

Revision : 0.7

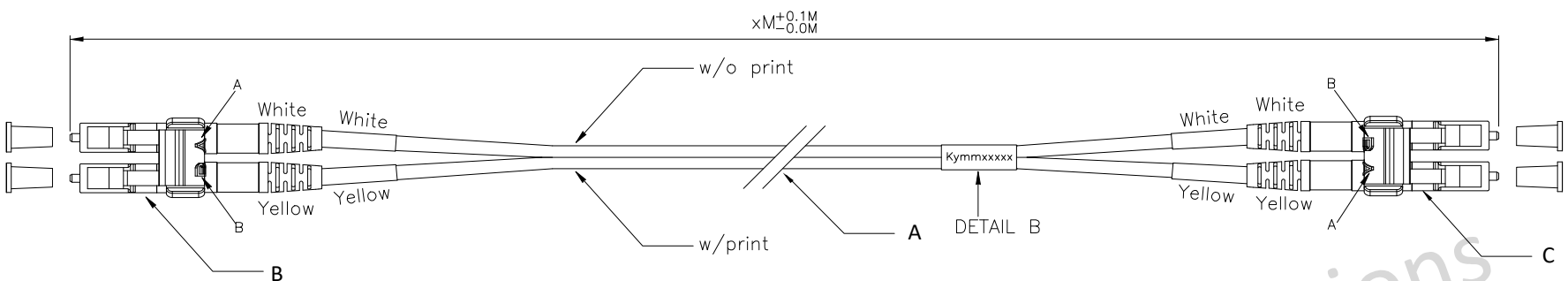
Date : 26-03-2024

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ACT Connectivity Solutions – Koolhovenstraat 1E – 3772MT – Barneveld – The Netherlands

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F
E
D
C
B
A



Property of ACT Connectivity Solutions

Specifications optical performance	
Insertion Loss (IL) typical	0.1 dB
Insertion Loss (IL) maximum	0.15 dB
Return Loss (RL)	≥ 45 dB
Polishing Connector	UPC
Standard compliances	
ANSI/TIA-568-D	
ISO 11801 OM4/IEC 60793-2-10 type A1a	
Telcordia GR-326 CORE	
Fire performance	
Flame retardancy	IEC 60332-1-2
Smoke density LS	IEC 61034
Absence of halogen ZH	IEC 60754-1



ACT Multimode Fiber Optic duplex patch cable 50/125 OM4

Item : RL97xx

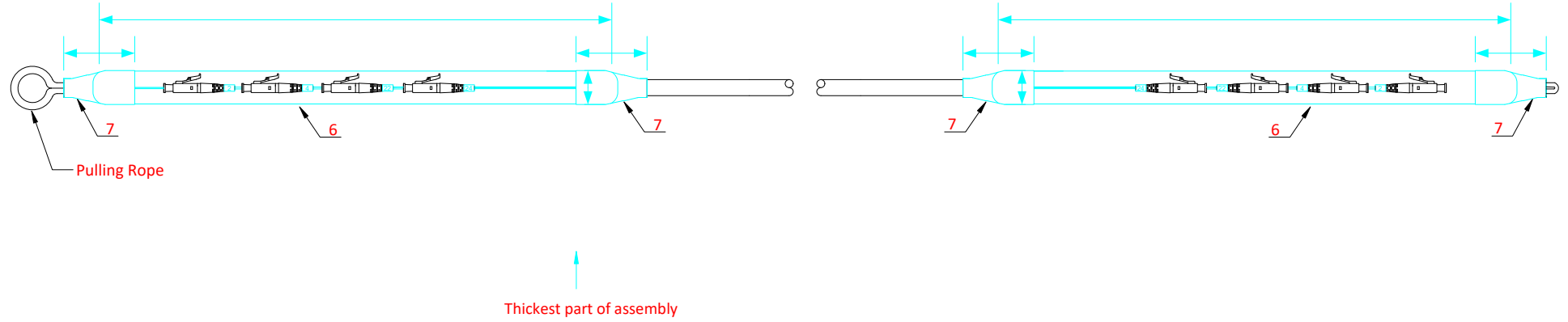
Revision : 1.0

Date : 14-03-2024

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Drawn by : M. Diks

8 7 6 5 4 3 2 1



Specification:

1. LC UPC Connector :

Mode	Ferrule Zirconia(Ø1.2 5mm)	Housing	Boot	Cap
SM Low Loss		Blue(PC)	White(TPV)	White(PE)

2. Cable Type: 24C Ø6.5mm Indoor/Outdoor Cable with Ø3.5mm Round Cable, UV Resistance. EN 50575:2014+A1:2016 CPR B2ca-s1, d1, a1

Category	Jacket O.D.	Jacket Material	Color
G.657A2(9/ 125um)	Ø6.5mm	LSZH	Black

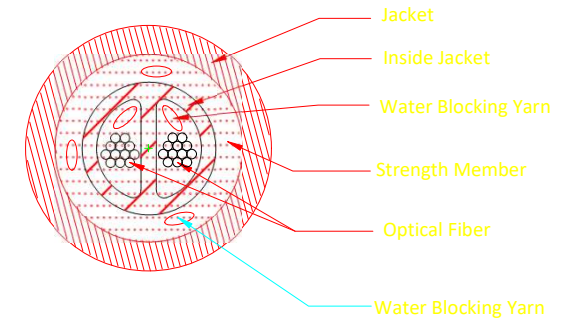
3. Tubing Type : Ø0.9mm Jacket for 12 Colors.

4. Heat Shrink Tubing Length : 80mm

5. Length : x Meter

6. Protective Tube : Transparent, 15x18mm, PVC Material.

7. Heat Shrink Tubing Length : 60mm



Cable Section (SCALE 5/1)

Performance:

- a. Insertion Loss : Typical 0.1dB, Max. < 0.15dB
- b. Return Loss : UPC>55dB
- c. Insertion Loss will be Increased after 500 mating : 0.2 dB Max
- d. Operating Temperature : -20°C to +70°C
- e. Storage Temperature : -40°C to +80°C

GENERAL TOLERANCE OF DIMENSIONS X.XXX ±0.1 X.XX ±0.2 X.X ±0.3	DRAWING	11.JAN.2024	YMN		
	CHECK	11.JAN.2024	DAY		
	APPROVAL	11.JAN.2024	FRANK		
	DATE		NAME	ITEM NO.:	
HSF Spec.	SCALE	1/3 (A4)	UNIT	mm	DES.: Indoor&Outdoor Cable B2ca 24C SMGG57A2 24xLC to 24xLC 900um
RoHS	DRAWING NO.		Indoor&Outdoor Cable B2ca 24C SMGG57A2 24xLC to 24xLC 900um(S02)		
DRAWING CLASSIFICATION		S	SHEET	2 OF 3	02

10cm

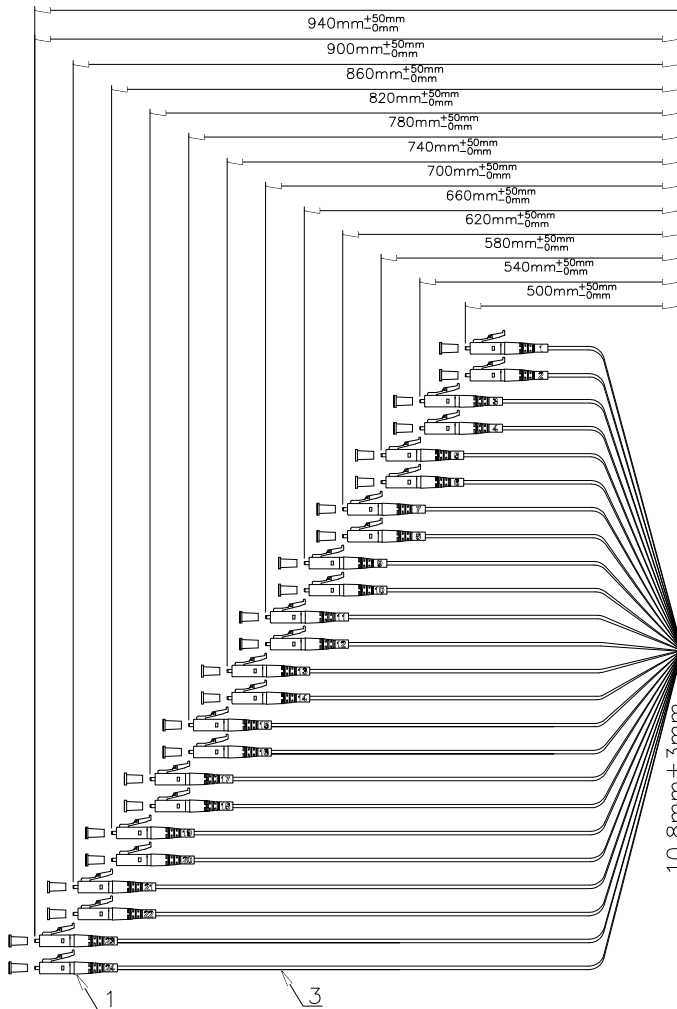
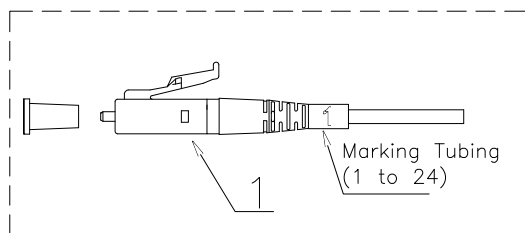
A

B

C

D

01 Blue
02 Orange
03 Green
04 Brown
05 Gray
06 White
07 Red
08 Black
09 Yellow
10 Purple
11 Pink
12 Aqua
13 Blue
14 Orange
15 Green
16 Brown
17 Gray
18 White
19 Red
20 Black
21 Yellow
22 Purple
23 Pink
24 Aqua

 $80\text{mm}^{+5\text{mm}}_{-0\text{mm}}$ $80\text{mm}^{+5\text{mm}}_{-0\text{mm}}$ $10.8\text{mm} \pm 3\text{mm}$ 

LC Connector (SCALE 1/1)

 5
 $XM^{+0.1\text{M}}_{-0.0\text{M}}$

4

2

4

 $10.8\text{mm} \pm 3\text{mm}$

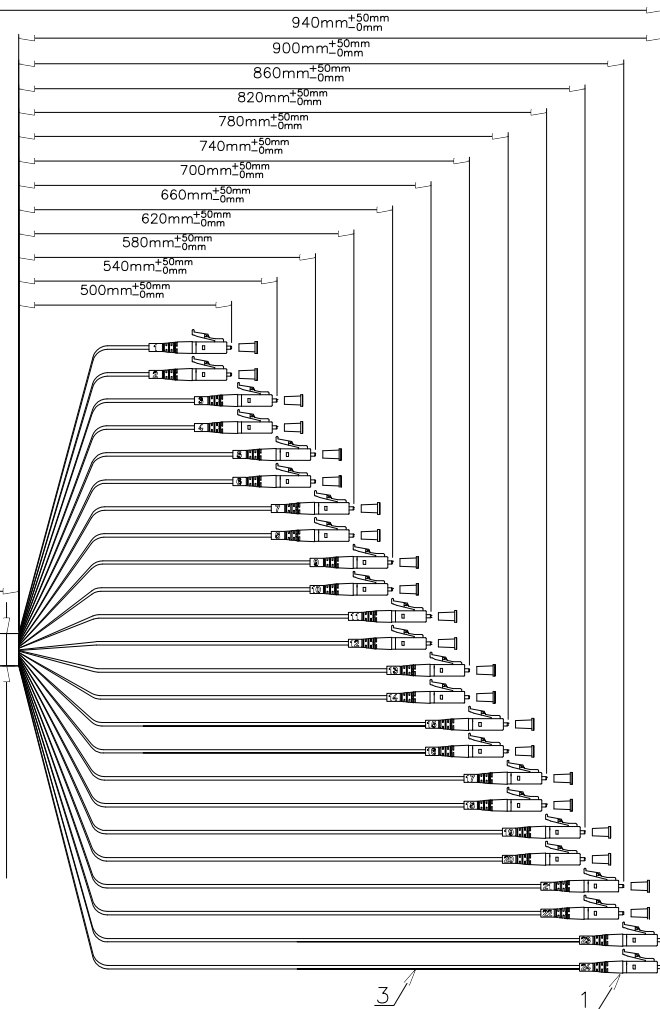
A

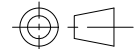
B

C

D

01 Blue
02 Orange
03 Green
04 Brown
05 Gray
06 White
07 Red
08 Black
09 Yellow
10 Purple
11 Pink
12 Aqua
13 Blue
14 Orange
15 Green
16 Brown
17 Gray
18 White
19 Red
20 Black
21 Yellow
22 Purple
23 Pink
24 Aqua



GENERAL TOLERANCE OF DIMENSIONS X.XXX ±0.1 X.XX ±0.2 X.X ±0.3	DRAWING		11.JAN.2024		YMN							
	CHECK		11.JAN.2024		DAY							
	APPROVAL		11.JAN.2024		FRANK							
			DATE		NAME		ITEM NO.:					
SCALE		1/3 (A4)		UNIT		mm		DES.: Indoor&Outdoor Cable B2ca 24C SMG657A2 24xLC to 24xLC 900um				
HSF Spec.			DRAWING NO.		Indoor&Outdoor Cable B2ca 24C SMG657A2 24xLC to 24xLC 900um(S02)							
RoHS			DRAWING CLASSIFICATION			S	SHEET	1 OF 3				

1

2

0

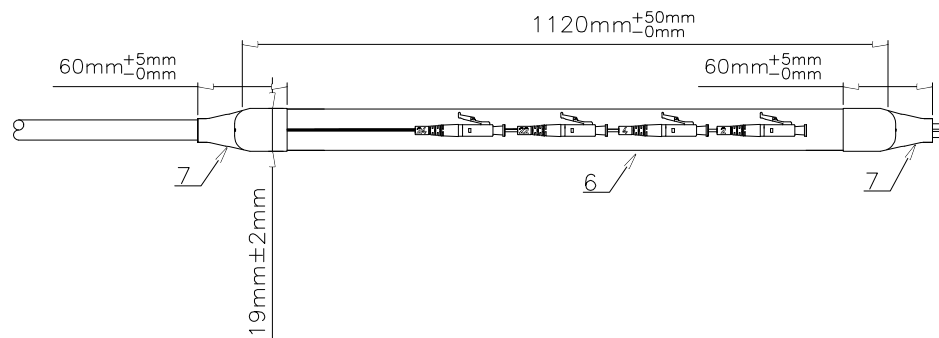
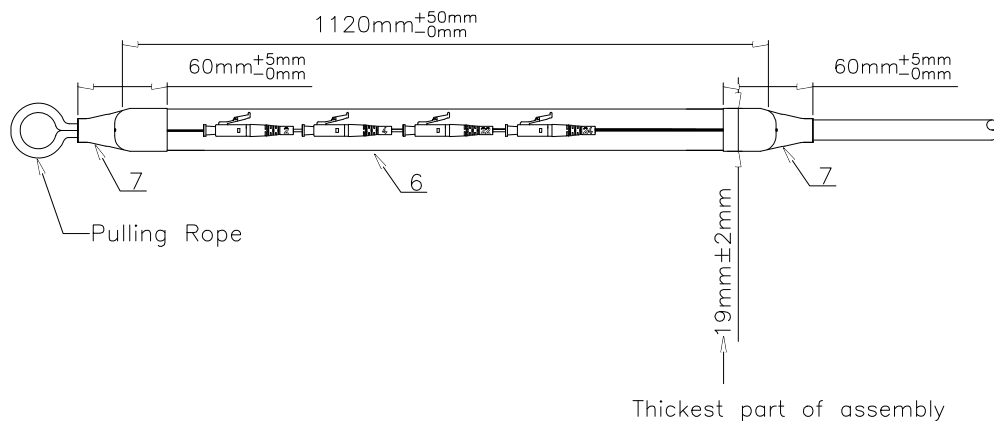
3

4

10cm

5

6



Specification:

1. LC UPC Connector :

Mode	Ferrule	Housing	Boot	Cap
SM Low Loss	Zirconia(Ø1.25mm)	Blue(PC)	White(TPV)	White(PE)

2. Cable Type: 24C Ø6.5mm Indoor/Outdoor Cable with Ø3.5mm Round Cable, UV Resistance. EN 50575:2014+A1:2016 CPR B2ca-s1, d1, a1

Category	Jacket O.D.	Jacket Material	Color
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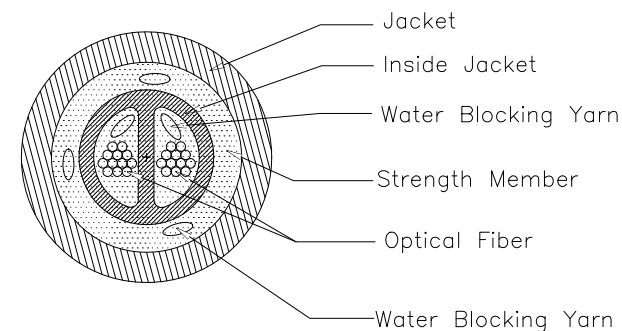
3. Tubing Type : Ø0.9mm Jacket for 12 Colors.

4. Heat Shrink Tubing Length : 80mm

5. Length : x Meter

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Cable Section (SCALE 5/1)

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GENERAL TOLERANCE OF DIMENSIONS X.XXX ±0.1 X.XX ±0.2 X.X ±0.3	DRAWING	11.JAN.2024	YMN	ACT	
	CHECK	11.JAN.2024	DAY		
	APPROVAL	11.JAN.2024	FRANK		
		DATE	NAME	ITEM NO.:	
HSF Spec.	SCALE	1/3 (A4)	UNIT	mm	DES.: Indoor&Outdoor Cable B2ca 24C SMG657A2 24xLC to 24xLC 900um
RoHS			DRAWING NO.	Indoor&Outdoor Cable B2ca 24C SMG657A2 24xLC to 24xLC 900um(S02)	
			DRAWING CLASSIFICATION	S SHEET	