

1

2

3

4

5

6

A

B

C

D

 $\times M^{+0.1M}_{-0.0M}$ 

01 Blue  
02 Orange  
03 Green  
04 Brown  
05 Gray  
06 White  
07 Red  
08 Black  
09 Yellow  
10 Purple  
11 Pink  
12 Aqua

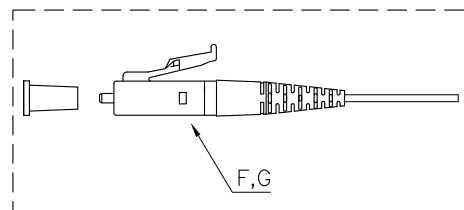
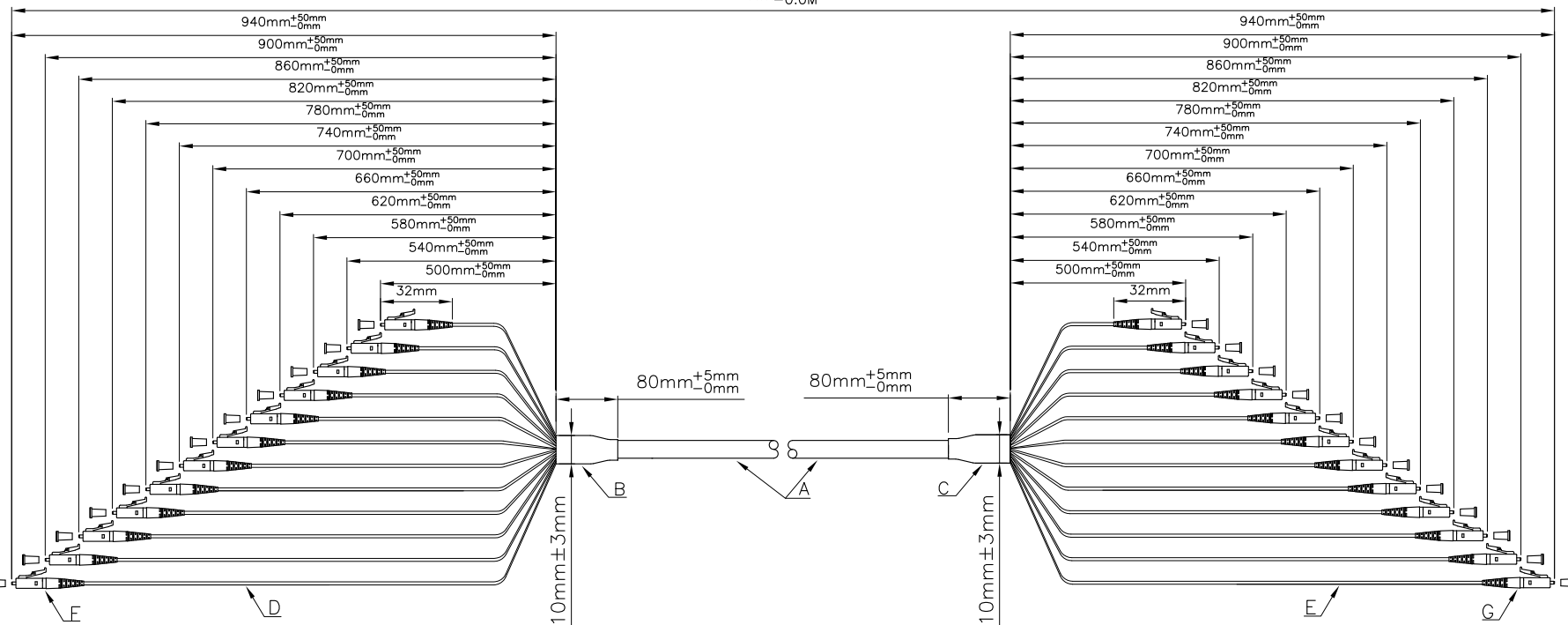
01 Blue  
02 Orange  
03 Green  
04 Brown  
05 Gray  
06 White  
07 Red  
08 Black  
09 Yellow  
10 Purple  
11 Pink  
12 Aqua

A

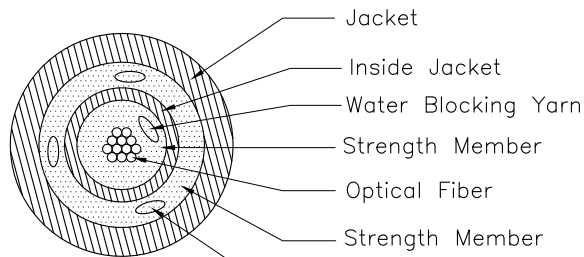
B

C

D



LC Connector (SCALE 1/1)



Cable Section (SCALE 5/1)

**ACT**

ACT Single Mode Fiber Optic Indoor / Outdoor cable 9/125 OS2

Item : RL45xx-B2ca

Revision : 1.0

Date : 04-07-2024

Drawn by : YMN

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 for 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.

1

2

0

3

4

10cm

5

6

Specifications Installation cable (A)	
Type	Indoor/Outdoor cable
Outer diameter	6.5mm
Tensile strength	350N
Operation temp.	-20°C to +70°C
Storage temp.	-40°C to +80°C
Outer Jacket	LSZH
Euro fire class	B2ca s1, d1, a1
Cable colour	Black
UV resistance	Yes
Cable printing	CE MM/YY ACT 12F 9/125 OS2 10280010 xxxxM DoP: 1320-2231 B2ca, s1, d1, a1 NB0598 Communications supply in-/outdoor (MM=month, YY=year)
Specifications Heat Shrink Tubing (B,C)	
Length	80mm
Specifications Fanout cable (D,E)	
Type	Tubing
Outer diameter	0.9mm
Operation temp.	-20°C to +70°C
Storage temp.	-40°C to +80°C
Colors	Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Purple, Pink, Aqua
Fanout length	500mm (+50mm-0mm) - 940mm (+50mm-0mm)
Fanout staggered increments	40mm
Specifications Connector (F,G)	
Connector	LC
Polishing Connector	UPC
Ferrule Connector	Ceramic Zirconia (ZrO2)
Ferrule Diameter	1.25mm
Housing	Blue (PC)
Boot	White (TPV)
Cap	White (PE)



ACT Single Mode Fiber Optic Indoor / Outdoor cable 9/125 OS2

Item : RL45xx-B2ca

Revision : 1.0

Date : 04-07-2024

Drawn by : YMN

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 for 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.

1

2

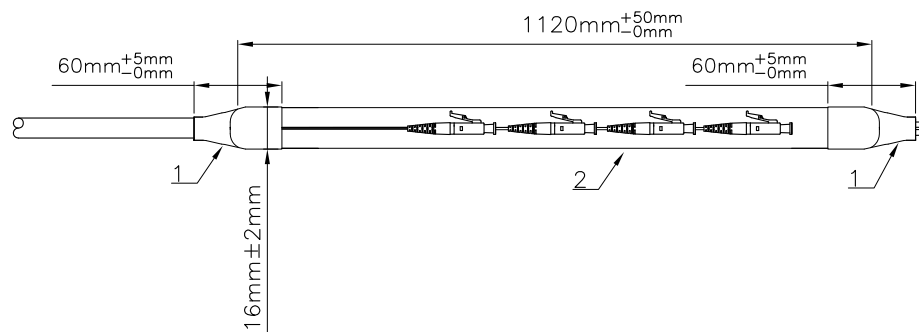
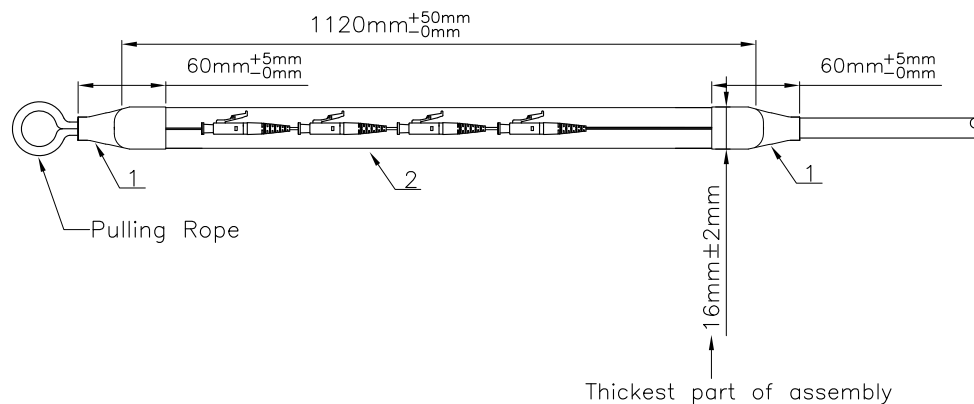
3

4

5

6

A



A

B

B

Item	Length(m)	Item	Length(m)
RL4501	10	RL4516	160
RL4502	20	RL4517	170
RL4503	30	RL4518	180
RL4504	40	RL4519	190
RL4505	50	RL4520	200
RL4506	60	RL4521	210
RL4507	70	RL4522	220
RL4508	80	RL4523	230
RL4509	90	RL4524	240
RL4510	100	RL4525	250
RL4511	110	RL4526	260
RL4512	120	RL4527	270
RL4513	130	RL4528	280
RL4514	140	RL4529	290
RL4515	150	RL4530	300

Specifications heat shrink tubing (1)	
Length	60mm
Specifications protective tube (2)	
Material	PVC
Color	Transparent
Dimensions	1120mm(+50mm -0mm) x 12mm x 15mm

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)

C

C

D

D

**ACT**

ACT Single Mode Fiber Optic Indoor / Outdoor cable 9/125 OS2

Item : RL45xx-B2ca

Revision : 1.0

Date : 04-07-2024

Drawn by : YMN

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 for 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.

1

2

0

3


4

10cm

5

6

Specifications fiber	
Fiber type	Single Mode
Fiber class	OS2
Diameter core / cladding	9/125
Specifications optical performance	
Insertion Loss (IL) typical	0.1 dB
Insertion Loss (IL) maximum	0.15 dB
Return Loss (RL)	≥ 55 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

	ACT Single Mode Fiber Optic Indoor / Outdoor cable 9/125 OS2	
	Item : RL45xx-B2ca	Revision : 1.0
	Date : 04-07-2024	
Drawn by : YMN	<small>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 for 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.</small>	