

**HOMOLOGATION REPORT  
No. 908.24**

**ADSS Optical fibre cable  
96FO**

**Specification:  
TC09376**

**SAP Code: 60114675**

*November, 2024*

Slatina, R&D

**AUTHOR:**  
Catalin Mateita  
R&D Technician

**APPROVED BY:**  
Florin Chirita  
R&D Manager

## Qualification tests list

<b>Content</b>	<b>Standards (if applicable)</b>	<b>Result</b>
Dimensional Measurement	SR EN 60811-1-100	Comply
Tensile Performance Test	IEC 60794-1-2 E1	Comply
Impact Test	IEC 60794-1-2 E4	Comply
Cable Bend Test	IEC 60794-1-2 E11	Comply
Repeated Bending	IEC 60794-1-2-E6	Comply
Crush Test	IEC 60794-1-2 E3	Comply
Torsion	IEC 60794-1-2-E7	Comply
Temperature Cycling Test	IEC 60794-1-2 F1	Comply
Water Penetration Test	IEC 60794-1-2-F5B	Comply
Drip Test	IEC 60794-1-22-E14	Comply

The above mentioned ADSS optical fibre cable 96FO type tests have been carried out in accordance with specification TC09376, international IEC specifications and internal R&D rules.

# Test report

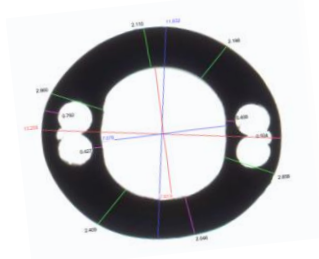
## Dimensional measurement

Type of cable:	FAUA FT K0D1E0 96(12G657A1)		
Drum no.:	DWP1400-14561598		
Specification:	TC09376		
Laboratory:	Prysmian Group Cabluri si Sisteme, Slatina		
Test standard:	SR EN 60811-1-100		
Instruments:	Caliper Mitutoyo	Calibration due date	Apr-24
	Cabscan 4.2	Calibration due date	May-24

<p><b>PASS / FAIL CRITERIA:</b> The measurements shall be compliant with cable's specification.</p>
<p><b>RESULT:</b> The following table summarizes the results.</p>
<p><b>CONCLUSION:</b> <span style="color: green; font-weight: bold;">PASS</span></p>

Parameter	Cable documentation	Measurement
# of tubes	8	8
Outer sheath tickness [mm]	2.4	2.43
Outer sheath Ø [mm]	12.4 ± 0.3	12.55
Cable weight [Kg/Km]	111	112.7

Outer end			
	Dimension		[mm]
Sheath thickness	Min.	2.046	Max. 2.960
	<b>average</b>		<b>2.430</b>
Outer Ø	Min.	11.832	Max. 13.258
	<b>average</b>		<b>12.545</b>



Date:  
14/11/2024

Performed by:  
M. Pauna

Approved by:  
M. Jianu

# ATTENUATION MEASUREMENT REPORT

Product Code: <b>60114675</b>	Batch: <b>RD00021193</b>	Measurement Date: <b>12/11/2024 13:49</b>
Product Description: <b>FAUA FT K0D1E0 96(12G657A1)-TC09376-en</b>	Drum Number: <b>DWP1400-14561598</b>	Instrument ID: <b>PRYRO-OTDR01</b>
Specification: <b>TC09376-en</b>	Cable Length: <b>3595</b>	Measuring Device: <b>PhotonKinetics 8000i</b>
Customer: <b>CAM 2</b>	Length ID: <b>TEST</b>	Fiber Length: <b>3602</b>

**All OTDR traces have been checked as linear and with regular behavior.**

**Result:Pass**

**Wavelength (nm): 1310**

**Wavelength (nm): 1310**

**Wavelength (nm): 1310**

**Wavelength (nm): 1383**

G.657A1 0.36 0.22 0.24 0.35	
Tube   Fiber	Atten. dB/Km
Blue   Blue	0.335
Blue   Orange	0.333
Blue   Green	0.333
Blue   Brown	0.338
Blue   Grey	0.339
Blue   White	0.335
Blue   Red	0.333
Blue   Black	0.335
Blue   Yellow	0.334
Blue   Violet	0.334
Blue   Turquoise	0.335
Blue   Pink	0.336
Orange   Blue	0.336
Orange   Orange	0.334
Orange   Green	0.334
Orange   Brown	0.334
Orange   Grey	0.335
Orange   White	0.335
Orange   Red	0.334
Orange   Black	0.340
Orange   Yellow	0.335
Orange   Violet	0.334
Orange   Turquoise	0.333
Orange   Pink	0.336
Green   Blue	0.335
Green   Orange	0.335
Green   Green	0.335
Green   Brown	0.337
Green   Grey	0.334
Green   White	0.332
Green   Red	0.332
Green   Black	0.337
Green   Yellow	0.334
Green   Violet	0.335
Green   Turquoise	0.335
Green   Pink	0.339
Brown   Blue	0.335
Brown   Orange	0.335
Brown   Green	0.333
Brown   Brown	0.333
Brown   Grey	0.335
Brown   White	0.336
Brown   Red	0.338
Brown   Black	0.336
Brown   Yellow	0.336
Brown   Violet	0.335
Brown   Turquoise	0.336
Brown   Pink	0.337
Grey   Blue	0.336

G.657A1 0.36 0.22 0.24 0.35	
Tube   Fiber	Atten. dB/Km
Grey   Orange	0.335
Grey   Green	0.335
Grey   Brown	0.333
Grey   Grey	0.336
Grey   White	0.336
Grey   Red	0.337
Grey   Black	0.336
Grey   Yellow	0.335
Grey   Violet	0.335
Grey   Turquoise	0.334
Grey   Pink	0.338
White   Blue	0.333
White   Orange	0.337
White   Green	0.333
White   Brown	0.334
White   Grey	0.339
White   White	0.331
White   Red	0.334
White   Black	0.337
White   Yellow	0.334
White   Violet	0.334
White   Turquoise	0.338
White   Pink	0.336
Red   Blue	0.336
Red   Orange	0.335
Red   Green	0.334
Red   Brown	0.336
Red   Grey	0.336
Red   White	0.333
Red   Red	0.335
Red   Black	0.335
Red   Yellow	0.334
Red   Violet	0.336
Red   Turquoise	0.338
Red   Pink	0.335
Black   Blue	0.341
Black   Orange	0.333
Black   Green	0.335
Black   Brown	0.334
Black   Grey	0.337
Black   White	0.334
Black   Red	0.334
Black   Black	0.334
Black   Yellow	0.333
Black   Violet	0.343
Black   Turquoise	0.337
Black   Pink	0.332

G.657A1 0.36 0.22 0.24 0.35	
Tube   Fiber	Atten. dB/Km
<b>Maximum</b>	<b>0.343</b>
<b>Average</b>	<b>0.335</b>
<b>Limit</b>	<b>0.360</b>

**Wavelength (nm): 1383**

G.657A1 0.36 0.22 0.24 0.35	
Tube   Fiber	Atten. dB/Km
Blue   Blue	0.277
Blue   Orange	0.267
Blue   Green	0.264
Blue   Brown	0.284
Blue   Grey	0.291
Blue   White	0.277
Blue   Red	0.287
Blue   Black	0.269
Blue   Yellow	0.279
Blue   Violet	0.292
Blue   Turquoise	0.274
Blue   Pink	0.274
Orange   Blue	0.274
Orange   Orange	0.286
Orange   Green	0.311
Orange   Brown	0.293
Orange   Grey	0.278
Orange   White	0.275
Orange   Red	0.283
Orange   Black	0.275
Orange   Yellow	0.308
Orange   Violet	0.273
Orange   Turquoise	0.280
Orange   Pink	0.274
Green   Blue	0.282
Green   Orange	0.282
Green   Green	0.310
Green   Brown	0.271
Green   Grey	0.273
Green   White	0.266
Green   Red	0.278
Green   Black	0.284
Green   Yellow	0.288
Green   Violet	0.276
Green   Turquoise	0.273
Green   Pink	0.271
Brown   Blue	0.301
Brown   Orange	0.296
Brown   Green	0.277
Brown   Brown	0.274

G.657A1 0.36 0.22 0.24 0.35	
Tube   Fiber	Atten. dB/Km
Brown   Grey	0.271
Brown   White	0.283
Brown   Red	0.293
Brown   Black	0.286
Brown   Yellow	0.273
Brown   Violet	0.281
Brown   Turquoise	0.285
Brown   Pink	0.281
Grey   Blue	0.273
Grey   Orange	0.292
Grey   Green	0.283
Grey   Brown	0.295
Grey   Grey	0.294
Grey   White	0.272
Grey   Red	0.296
Grey   Black	0.277
Grey   Yellow	0.280
Grey   Violet	0.271
Grey   Turquoise	0.281
Grey   Pink	0.305
White   Blue	0.282
White   Orange	0.281
White   Green	0.269
White   Brown	0.304
White   Grey	0.278
White   White	0.290
White   Red	0.268
White   Black	0.279
White   Yellow	0.305
White   Violet	0.279
White   Turquoise	0.289
White   Pink	0.286
Red   Blue	0.271
Red   Orange	0.274
Red   Green	0.280
Red   Brown	0.275
Red   Grey	0.275
Red   White	0.276
Red   Red	0.299
Red   Black	0.267
Red   Yellow	0.270
Red   Violet	0.288
Red   Turquoise	0.279
Red   Pink	0.264
Black   Blue	0.294
Black   Orange	0.323
Black   Green	0.295
Black   Brown	0.285
Black   Grey	0.267

**Production Operator:**  
**Quality Inspector: CHITUCEA**

**Finish Goods Inspector**  
**Lungu Ionut**

**Wavelength (nm): 1383**

G.657A1 0.36 0.22 0.24 0.35	
Tube   Fiber	Atten. dB/Km
Black   White	0.278
Black   Red	0.278
Black   Black	0.292
Black   Yellow	0.289
Black   Violet	0.277
Black   Turquoise	0.280
Black   Pink	0.282
<b>Maximum</b>	<b>0.323</b>
<b>Average</b>	<b>0.282</b>
<b>Limit</b>	<b>0.350</b>

**Wavelength (nm): 1550**

G.657A1 0.36 0.22 0.24 0.35	
Tube   Fiber	Atten. dB/Km
Blue   Blue	0.185
Blue   Orange	0.184
Blue   Green	0.185
Blue   Brown	0.189
Blue   Grey	0.187
Blue   White	0.188
Blue   Red	0.185
Blue   Black	0.187
Blue   Yellow	0.184
Blue   Violet	0.185
Blue   Turquoise	0.186
Blue   Pink	0.186
Orange   Blue	0.189
Orange   Orange	0.184
Orange   Green	0.185
Orange   Brown	0.186
Orange   Grey	0.185
Orange   White	0.187
Orange   Red	0.185
Orange   Black	0.188
Orange   Yellow	0.186
Orange   Violet	0.186
Orange   Turquoise	0.184
Orange   Pink	0.187
Green   Blue	0.185
Green   Orange	0.186
Green   Green	0.186
Green   Brown	0.187
Green   Grey	0.187
Green   White	0.184
Green   Red	0.184
Green   Black	0.187
Green   Yellow	0.185
Green   Violet	0.185
Green   Turquoise	0.188
Green   Pink	0.188
Brown   Blue	0.188
Brown   Orange	0.185
Brown   Green	0.184
Brown   Brown	0.186
Brown   Grey	0.185
Brown   White	0.188
Brown   Red	0.188
Brown   Black	0.187
Brown   Yellow	0.185
Brown   Violet	0.185

**Wavelength (nm): 1550**

G.657A1 0.36 0.22 0.24 0.35	
Tube   Fiber	Atten. dB/Km
Brown   Turquoise	0.187
Brown   Pink	0.187
Grey   Blue	0.187
Grey   Orange	0.186
Grey   Green	0.184
Grey   Brown	0.185
Grey   Grey	0.186
Grey   White	0.188
Grey   Red	0.185
Grey   Black	0.186
Grey   Yellow	0.186
Grey   Violet	0.187
Grey   Turquoise	0.185
Grey   Pink	0.186
White   Blue	0.184
White   Orange	0.186
White   Green	0.186
White   Brown	0.184
White   Grey	0.187
White   White	0.184
White   Red	0.186
White   Black	0.187
White   Yellow	0.185
White   Violet	0.185
White   Turquoise	0.188
White   Pink	0.186
Red   Blue	0.188
Red   Orange	0.186
Red   Green	0.185
Red   Brown	0.187
Red   Grey	0.186
Red   White	0.185
Red   Red	0.184
Red   Black	0.185
Red   Yellow	0.185
Red   Violet	0.186
Red   Turquoise	0.186
Red   Pink	0.185
Black   Blue	0.184
Black   Orange	0.183
Black   Green	0.187
Black   Brown	0.184
Black   Grey	0.188
Black   White	0.184
Black   Red	0.184
Black   Black	0.184
Black   Yellow	0.185
Black   Violet	0.186
Black   Turquoise	0.187
Black   Pink	0.184
<b>Maximum</b>	<b>0.189</b>
<b>Average</b>	<b>0.186</b>
<b>Limit</b>	<b>0.220</b>

**Wavelength (nm): 1625**

G.657A1 0.36 0.22 0.24 0.35	
Tube   Fiber	Atten. dB/Km
Blue   Blue	0.195
Blue   Orange	0.195
Blue   Green	0.196

**Wavelength (nm): 1625**

G.657A1 0.36 0.22 0.24 0.35	
Tube   Fiber	Atten. dB/Km
Blue   Brown	0.200
Blue   Grey	0.197
Blue   White	0.199
Blue   Red	0.196
Blue   Black	0.196
Blue   Yellow	0.196
Blue   Violet	0.194
Blue   Turquoise	0.197
Blue   Pink	0.197
Orange   Blue	0.201
Orange   Orange	0.195
Orange   Green	0.196
Orange   Brown	0.196
Orange   Grey	0.196
Orange   White	0.201
Orange   Red	0.196
Orange   Black	0.198
Orange   Yellow	0.196
Orange   Violet	0.196
Orange   Turquoise	0.195
Orange   Pink	0.199
Green   Blue	0.196
Green   Orange	0.197
Green   Green	0.197
Green   Brown	0.198
Green   Grey	0.197
Green   White	0.196
Green   Red	0.195
Green   Black	0.196
Green   Yellow	0.196
Green   Violet	0.196
Green   Turquoise	0.200
Green   Pink	0.197
Brown   Blue	0.198
Brown   Orange	0.196
Brown   Green	0.195
Brown   Brown	0.196
Brown   Grey	0.195
Brown   White	0.200
Brown   Red	0.199
Brown   Black	0.196
Brown   Yellow	0.194
Brown   Violet	0.196
Brown   Turquoise	0.197
Brown   Pink	0.197
Grey   Blue	0.199
Grey   Orange	0.197
Grey   Green	0.195
Grey   Brown	0.196
Grey   Grey	0.195
Grey   White	0.199
Grey   Red	0.195
Grey   Black	0.195
Grey   Yellow	0.194
Grey   Violet	0.197
Grey   Turquoise	0.195
Grey   Pink	0.197
White   Blue	0.195
White   Orange	0.195
White   Green	0.195
White   Brown	0.195
White   Grey	0.197

**Wavelength (nm): 1625**

G.657A1 0.36 0.22 0.24 0.35	
Tube   Fiber	Atten. dB/Km
White   White	0.196
White   Red	0.197
White   Black	0.197
White   Yellow	0.195
White   Violet	0.196
White   Turquoise	0.199
White   Pink	0.195
Red   Blue	0.200
Red   Orange	0.196
Red   Green	0.196
Red   Brown	0.197
Red   Grey	0.197
Red   White	0.194
Red   Red	0.197
Red   Black	0.194
Red   Yellow	0.197
Red   Violet	0.197
Red   Turquoise	0.197
Red   Pink	0.196
Black   Blue	0.196
Black   Orange	0.196
Black   Green	0.196
Black   Brown	0.196
Black   Grey	0.197
Black   White	0.195
Black   Red	0.195
Black   Black	0.194
Black   Yellow	0.195
Black   Violet	0.197
Black   Turquoise	0.197
Black   Pink	0.195
<b>Maximum</b>	<b>0.201</b>
<b>Average</b>	<b>0.196</b>
<b>Limit</b>	<b>0.240</b>

Production Operator:  
Quality Inspector: CHITUCEA

Finish Goods Inspector  
Lungu Ionut

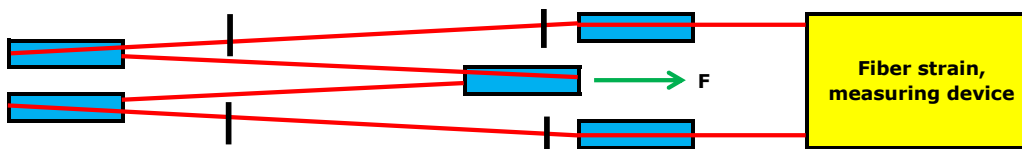


# Test report

## Tensile performance

Type of cable:	FAUA FT K0D1E0 96(12G657A1)		
Drum no.:	DWP1400-14561598		
Specification:	TC09376		
Laboratory:	Prysmian Group Cabluri si Sisteme, Slatina		
Test standard:	IEC 60794-1-21 E1		
Length under test:	147 m		
Fibers under test:	8 by 8 channels		
Instruments:	Load cell 5000 Kgf	Calibration due date:	Dec-24
	Fiber strain CD500	Calibration due date:	Apr-24

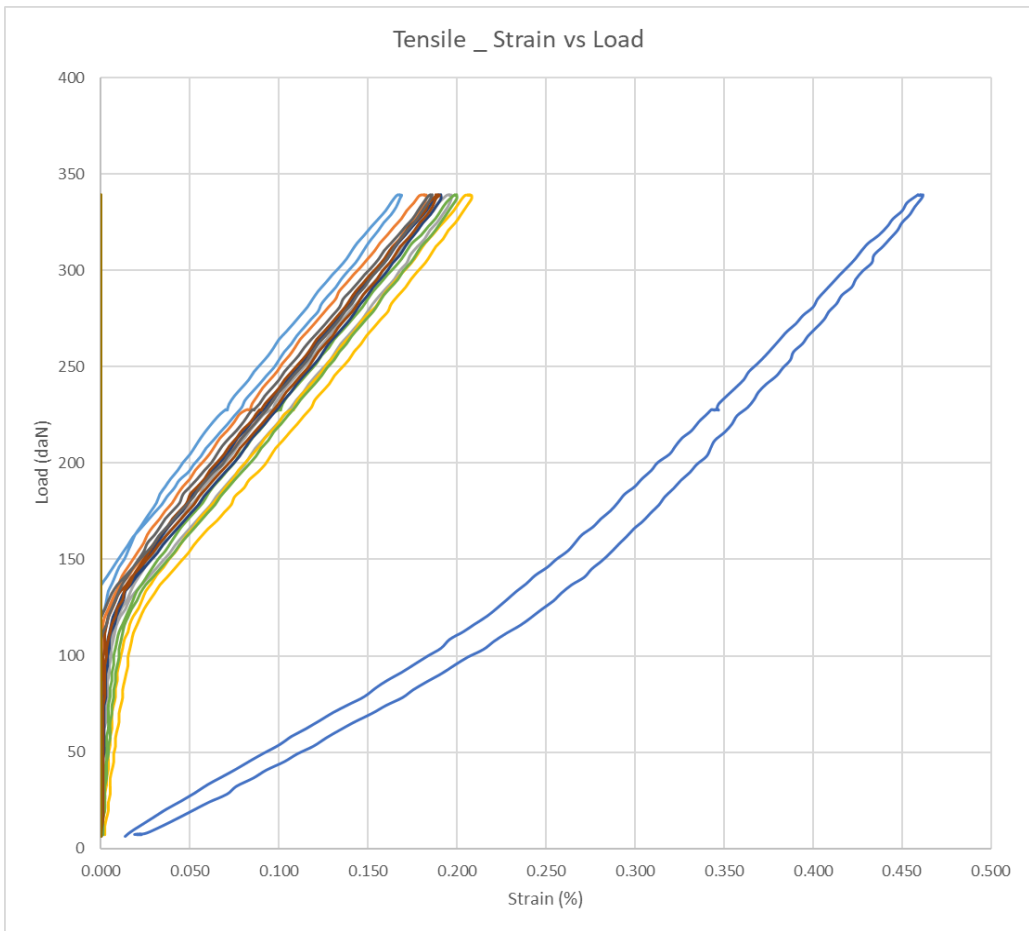
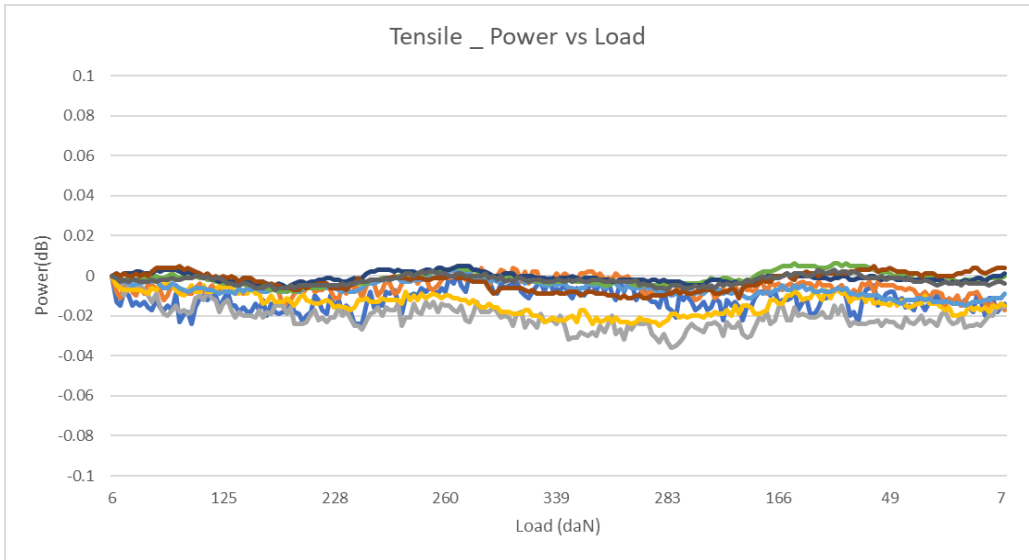
<b>PASS / FAIL CRITERIA:</b> 3340 N, 5 min, $\Delta l/l \leq 0.2\%$ , $\Delta\alpha \leq 0.5$ dB/km, reversible;
<b>RESULT:</b> @ 3340 N, max $\Delta l/l$ fibers = 0.208 %, max $\Delta l/l$ cable = 0.462 %, max $\Delta\alpha$ = 0.036 dB, reversible.
<b>CONCLUSION:</b> <b>PASS</b>



- Legend**
- Tensile Strength machine pulleys
  - Cable under test
  - Cable elongation marks
  - Load direction

Set-up Picture





Date:  
14/11/2024

Performed by:  
A. Bostina

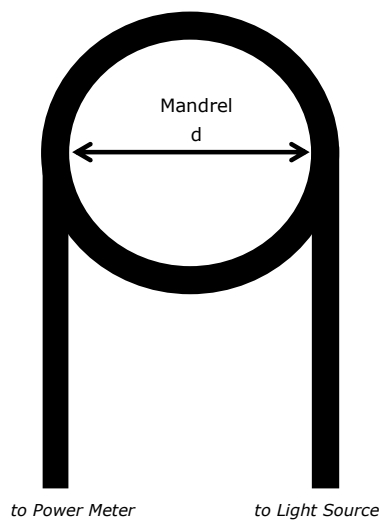
Approved by:  
M. Jianu

# Test report

## Cable bend

Type of cable:	FAUA FT KOD1E0 96(12G657A1)	Calibration due date:	N/A
Drum no.:	DWP1400-14561598	Calibration due date:	Apr-24
Specification:	TC09376		
Laboratory:	Prysmian Group Cabluri si Sisteme, Slatina		
Test standard:	IEC 60794-1-21 E11		
Length under test:	74 m		
Fibers spliced in loop:	18		
Instruments:	Laboratory bend test device		
	Fiber strain CD500		

<b>PASS / FAIL CRITERIA:</b> R = 10 x OD, 5 turns, 3 cycles, $\Delta\alpha \leq 0.05$ dB, reversible;
<b>RESULT:</b> 3 cycles x 5 turns; mandrel $\varnothing 248$ mm; max $\Delta\alpha = 0.005$ dB, $\Delta\alpha$ reversible;
<b>CONCLUSION:</b> <b>PASS</b>

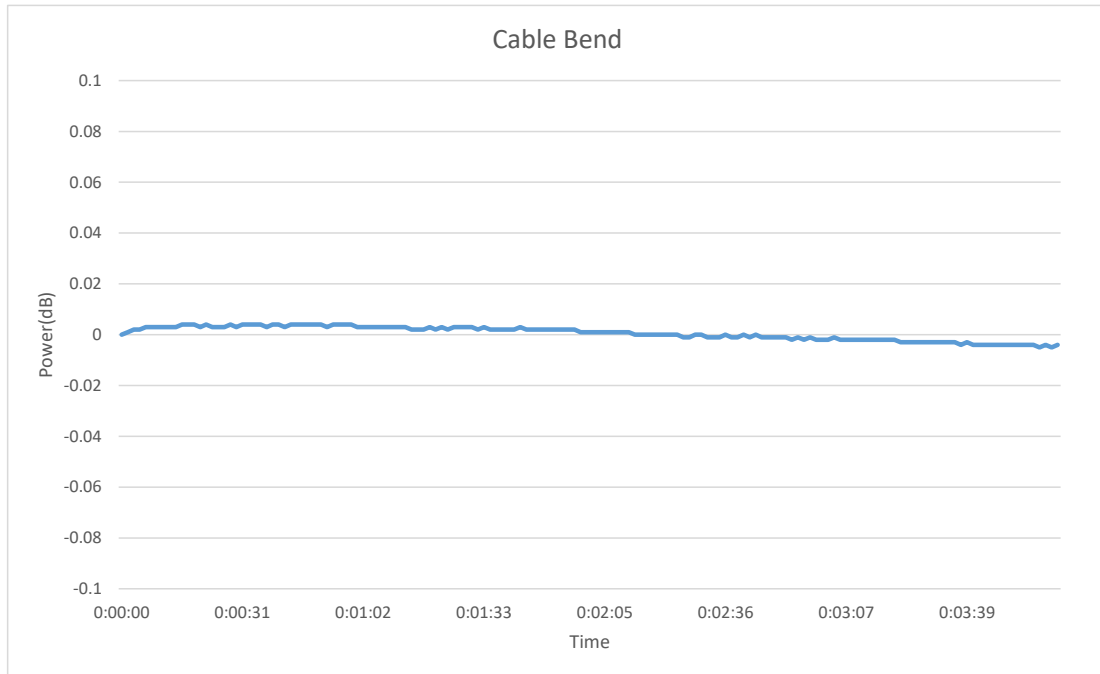


**Schematic representation of test**





Test results		
Cable bend test no. / No. of cycles	Mandrel Ø (mm)	Max. att. change during test/loop [dB]
1/ 3	248	0.005



Date:  
14/11/2024

Performed by:  
A. Bostina

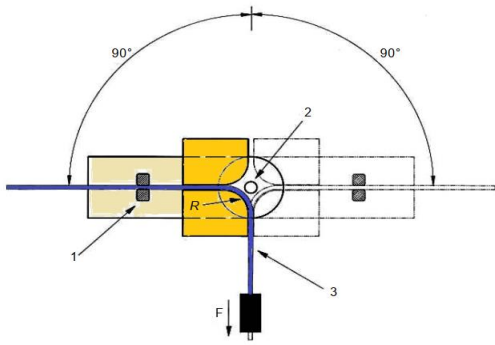
Approved by:  
M. Jianu

# Test report

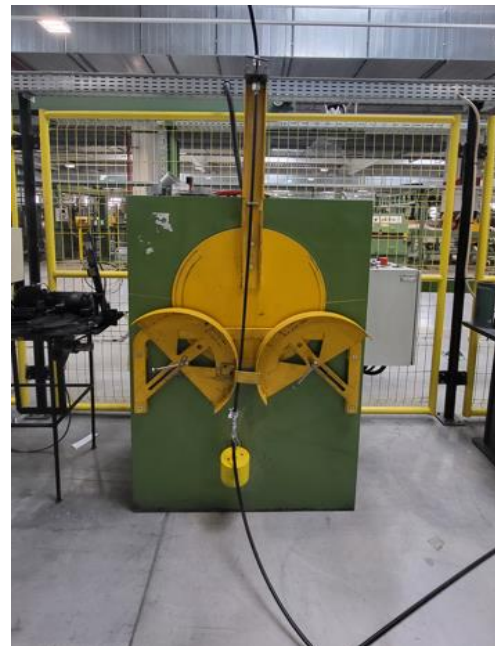
## Repeated bending

Type of cable:	FAUA FT K0D1E0 96(12G657A1)	
Drum no.:	DWP1400-14561598	
Specification:	TC09376	
Laboratory:	Prysmian Group Cabluri si Sisteme, Slatina	
Test standard:	IEC 60794-1-2-E6	
Length under test:	74 m	
Fibers spliced in loop:	18	
Instruments:	Laboratory repeated bending test device	Calibration due date: N/A
	Fiber strain CD500	Calibration due date: Apr-24

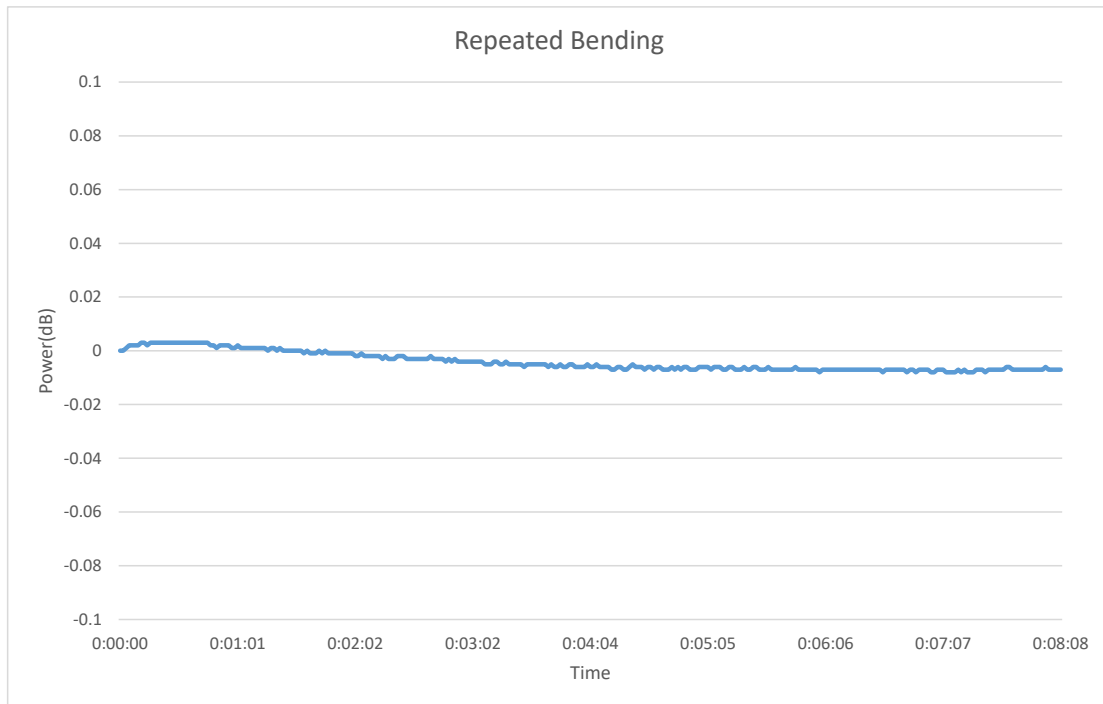
<b>PASS / FAIL CRITERIA:</b> 50 cycles; $R = 20 \times OD$ , $\Delta\alpha \leq 0.05$ dB, reversible;
<b>RESULT:</b> 50 cycles, mandrel $\varnothing 496$ mm, Max. $\Delta\alpha = 0.008$ dB, no damage;
<b>CONCLUSION:</b> <b>PASS</b>



- 1. Clamp
- 2. Axis of rotation
- 3. Sample
- $R$  bending radius
- $F$  load



Test results		
Test no.	No. of cycles	Max. att. change during test/loop [dB]
1	50	0.008



Date:  
14/11/2024

Performed by:  
A. Bostina

Approved by:  
M. Jianu

# Test report

## Crush test

Type of cable:	FAUA FT KOD1E0 96(12G657A1)		
Drum no.:	DWP1400-14561598		
Specification:	TC09376		
Laboratory:	Prysmian Group Cabluri si Sisteme, Slatina		
Test standard:	IEC 60794-1-21 E3		
Length under test:	74 m		
Fibers spliced in loop:	18		
Instruments:	Instron	Calibration due date:	Dec-24
	Fiber strain CD500	Calibration due date:	Apr-24

**PASS / FAIL CRITERIA:**  
 2000 N / 100 mm, 10 min,  $\Delta\alpha \leq 0.05$  dB, reversible, no damage;

**RESULT:**  
 2000N / 100 mm, 10 min, max  $\Delta\alpha = 0.011$  dB;

**CONCLUSION:**  
PASS

Test results		
Crush test no.	Load [N]	Max. att. change during test /loop [dB]
1	2000	0.011
2	2000	0.006
3	2000	0.006

#Crush 1

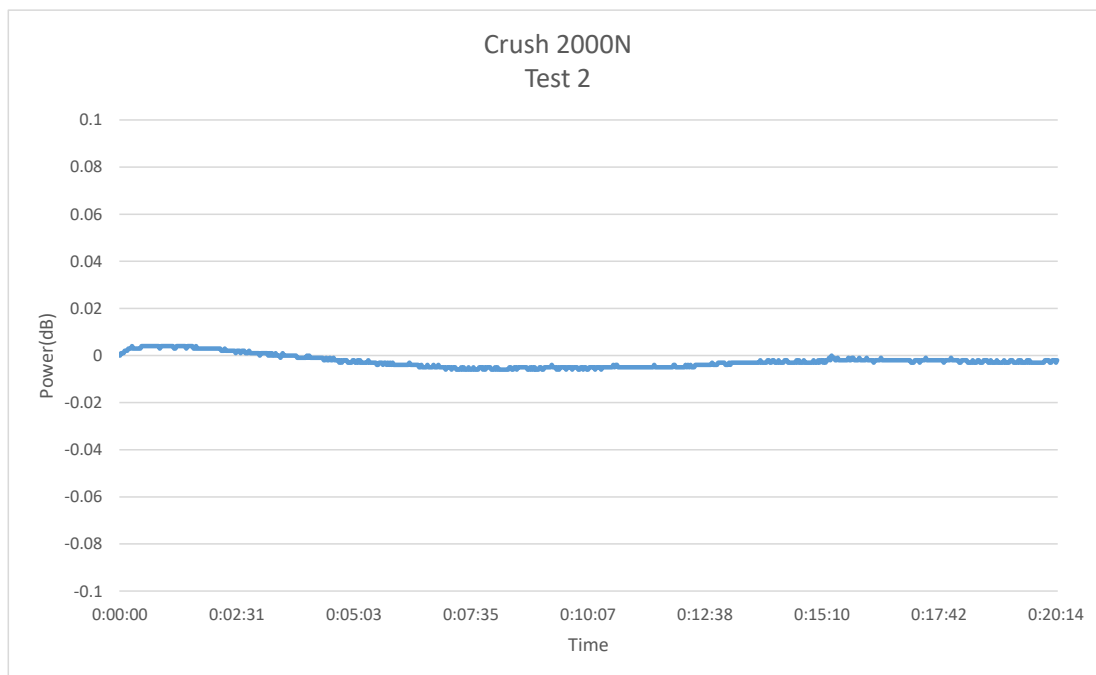
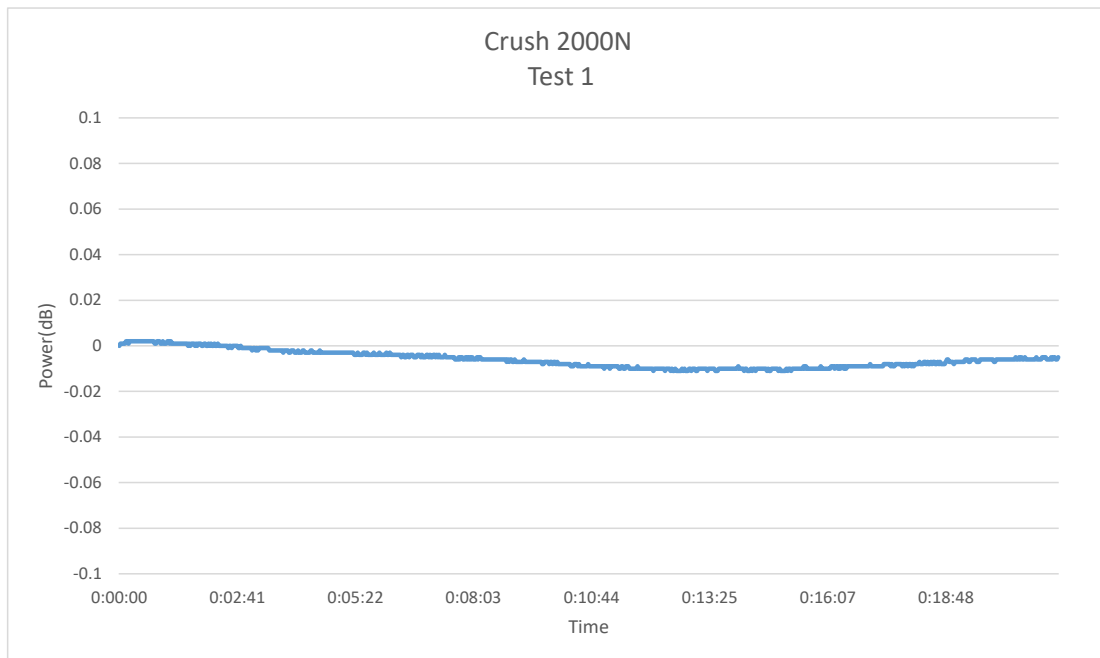


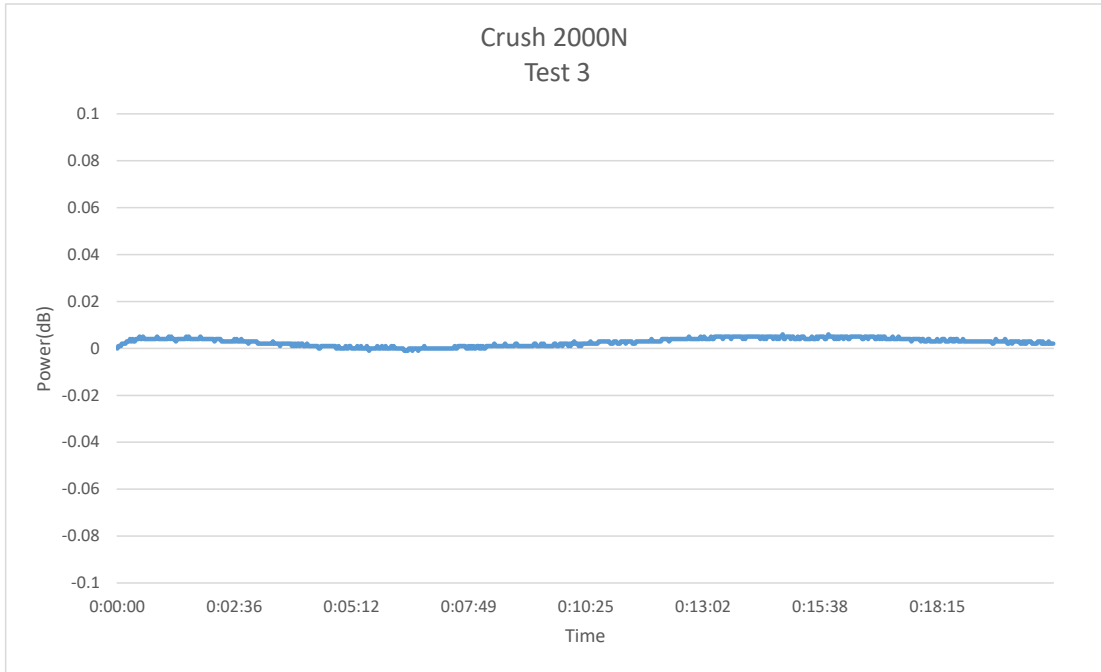
#Crush 2



#Crush 3







*Date:*  
14/11/2024

*Performed by:*  
C. Oanta

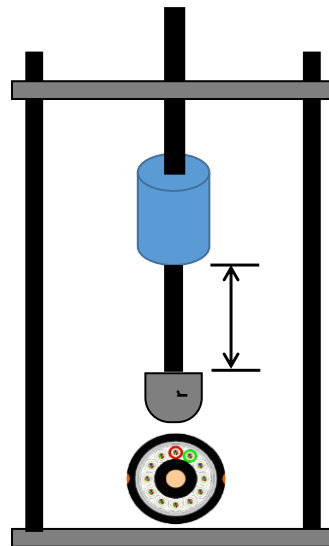
*Approved by:*  
M. Jianu

# Test report

## Impact test

Type of cable:	FAUA FT K0D1E0 96(12G657A1)		
Drum no.:	DWP1400-14561598		
Specification:	TC09376		
Laboratory:	Prysmian Group Cabluri si Sisteme, Slatina		
Test standard:	IEC 60794-1-21 E4		
Length under test:	74 m		
Fibers spliced in loop:	18		
Instruments:	Laboratory Impact test device	Calibration due date:	NA
	Fiber strain CD500	Calibration due date:	Apr-24

<b>PASS / FAIL CRITERIA:</b> 10 J, 3 impacts , R = 300 mm; $\Delta\alpha \leq 0.05$ dB, reversible, no damage;
<b>RESULT:</b> 10 J, 3 impacts, R = 300 mm, Max. $\Delta\alpha = 0.005$ dB, no damage;
<b>CONCLUSION:</b> <b>PASS</b>



Schematic representation of test

Test results		
Impact test no. / No. of impacts	Impact Energy(J)	Max. att. change during test/loop [dB]
1/ 3	10	0.005

**Cable After Test**

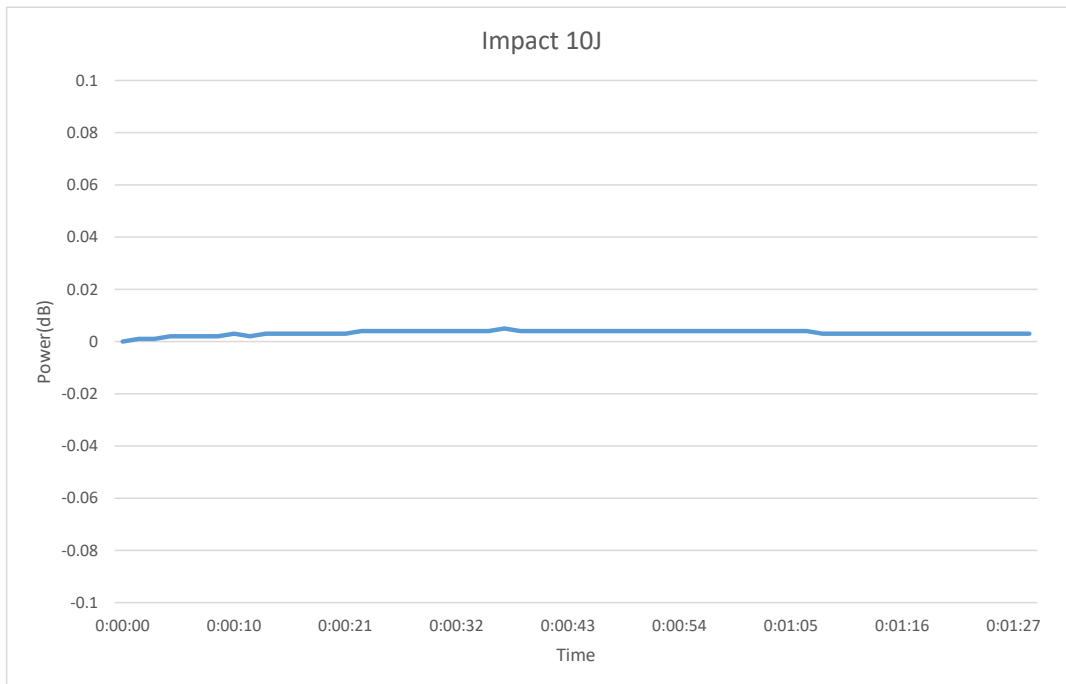
#1



#2



#3



Date:  
14/11/2024

Performed by:  
A. Bostina

Approved by:  
M. Jianu

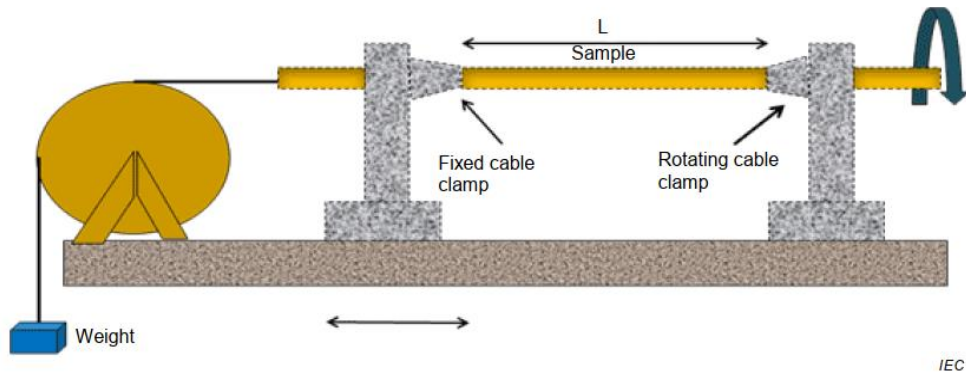


# Test report

## Torsion test

Type of cable:	FAUA FT KOD1E0 96(12G657A1)	Calibration due date:	N/A
Drum no.:	DWP1400-14561598	Calibration due date:	Apr-24
Specification:	TC09376		
Laboratory:	Prysmian Group Cabluri si Sisteme, Slatina		
Test standard:	IEC 60794-1-2-E7		
Length under test:	74 m		
Fibers spliced in loop:	18		
Instruments:	Laboratory torsion device		
	Fiber strain CD500		

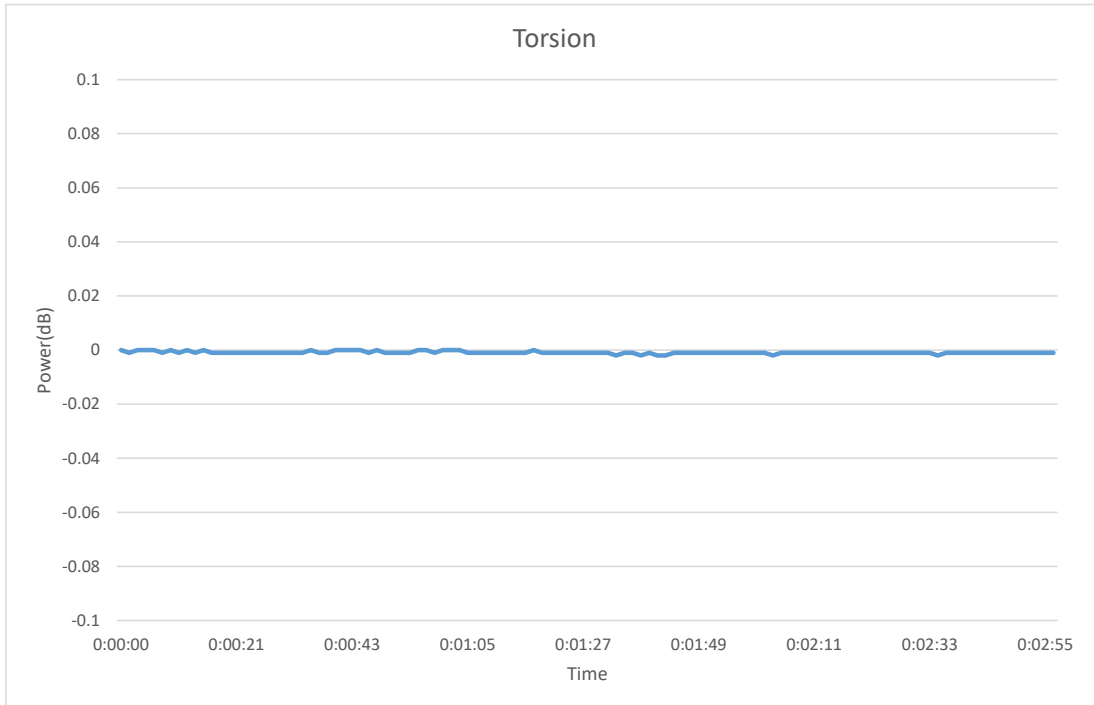
<b>PASS / FAIL CRITERIA:</b> $\pm 180^\circ$ , 2 m, 100N, 5 cycles $\Delta\alpha \leq 0.05$ dB, reversible;
<b>RESULT:</b> $\pm 360^\circ$ Max $\Delta\alpha = 0.002$ dB, no damage;
<b>CONCLUSION:</b> <b>PASS</b>



Set-up Picture



Test results		
Torsion test no.	Length [m]	Max. att. change during test/loop [dB]
1	2	0.002



Date:  
14/11/2024

Performed by:  
A. Bostina

Approved by:  
M. Jianu

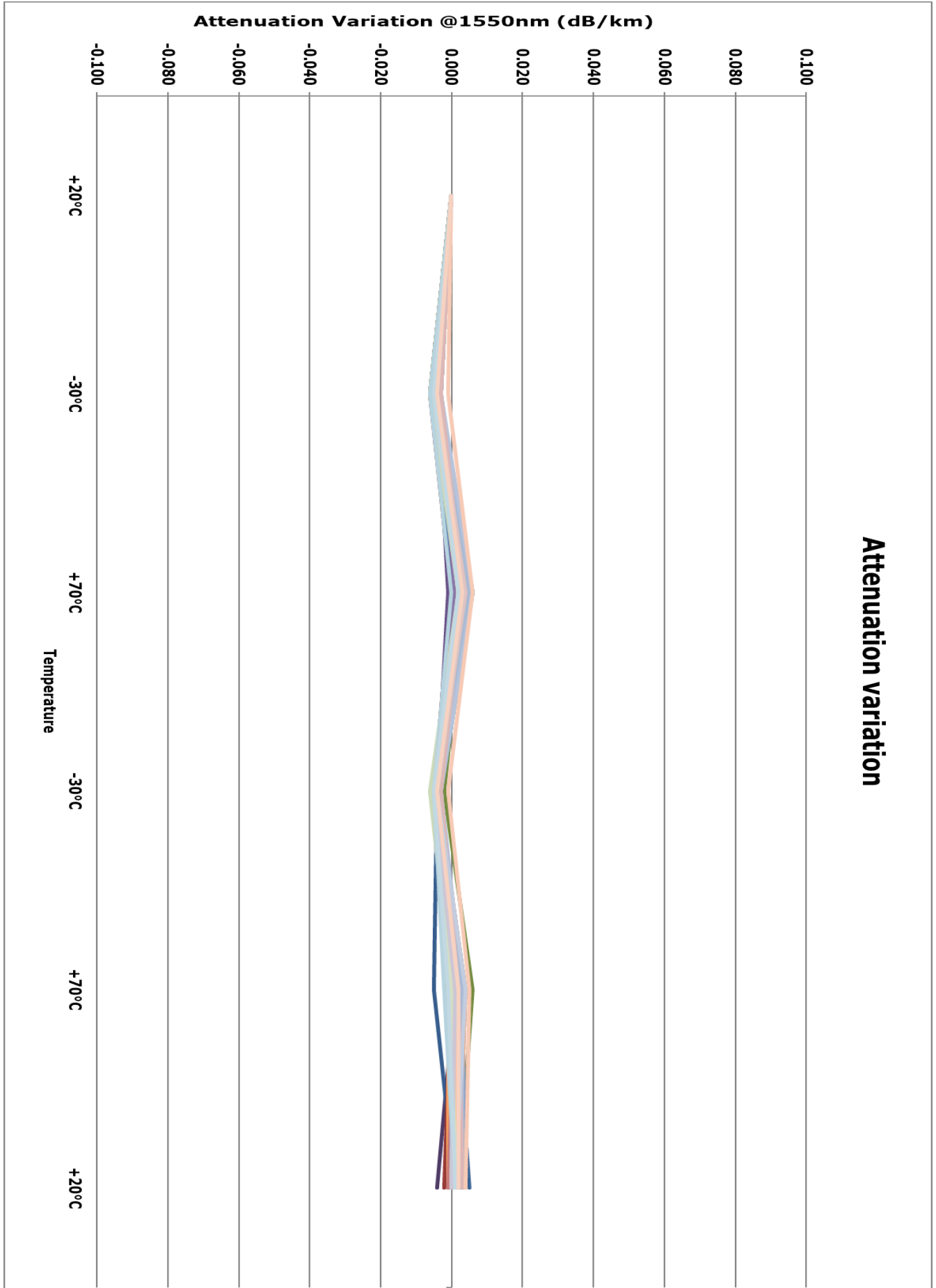
# Test report

## Temperature cycling

Type of cable:	FAUA FT KOD1E0 96(12G657A1)		
Drum no.:	DWP1400-14561598		
Specification:	TC09376		
Laboratory:	Prysmian Group Cabluri si Sisteme, Slatina		
Test standard:	IEC 60794-1-2 F1		
Length under test:	3595 m		
Looped fibers:	-		
Instruments:	Climatic chamber Angelantoni	Calibration due date	Dec-24
	OTDR PK8000	Calibration due date	Nov-24

<b>PASS / FAIL CRITERIA:</b>  <p style="text-align: center;">-30°C / +70°C ; @1550nm, <math>\Delta\alpha \leq 0.1</math> dB/km;</p>
<b>RESULT:</b>  <p style="text-align: center;">See table below</p>
<b>CONCLUSION:</b> <p style="text-align: center; color: green; font-weight: bold;">PASS</p>

Test Results		
Wavelength	Maximum attenuation variation -30°C / +70°C	Average reversibility
	dB/km	dB/km
@1550nm	0.006	0.001



Date:  
14/11/2024

Performed by:  
C. Mateita

Approved by:  
M. Jianu

# Test report

## Water penetration

Type of cable:	FAUA FT K0D1E0 96(12G657A1)	
Drum no.:	DWP1400-14561598	
Specification:	TC09376	
Laboratory:	Prysmian Group Cabluri si Sisteme, Slatina	
Test standard:	IEC 60794-1-2 F5B	
Length under test:	3 x 3 m	
Looped fibers:	-	
Instruments:	Water penetration test device	Last Calibration: -

<b>PASS / FAIL CRITERIA:</b>	3 m sample, 1 m water column, no water penetration in 24 hours;
<b>RESULT:</b>	No leakage was observed through cable core after 24 hours;
<b>CONCLUSION:</b>	<b>PASS</b>

Test Results	
Sample No.	Water pen. length [mm]
1	190
2	260
3	340

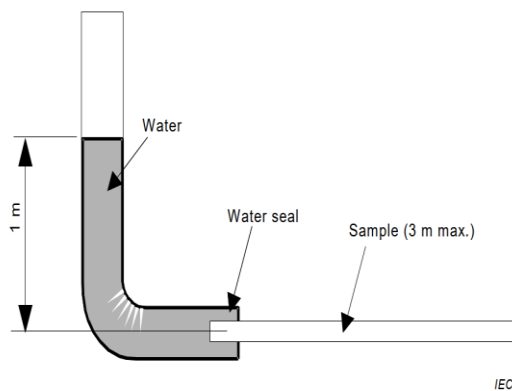


Figure 4 – Test arrangement for method F5B



Date:  
14/11/2024

Performed by:  
A. Bostina

Approved by:  
M. Jianu

# Test report

## Drip Test

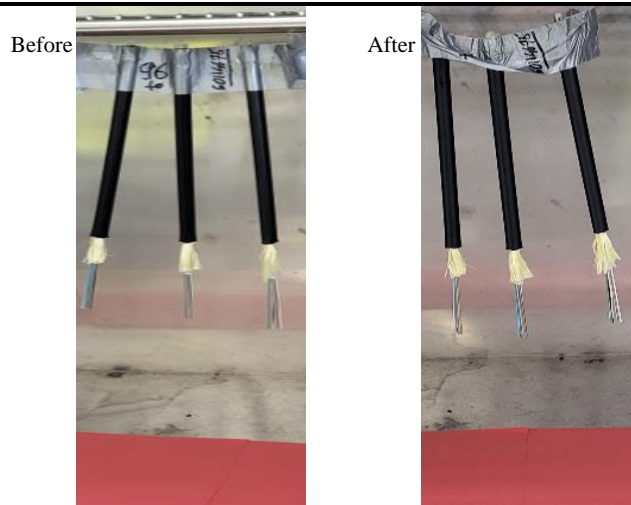
Type of cable:	FAUA FT K0D1E0 96(12G657A1)		
Drum no.:	DWP1400-14561598		
Specification:	TC09376		
Laboratory:	Prysmian Group Cabluri si Sisteme, Slatina		
Test standard:	IEC 60794-1-2 E14		
Length under test:	3 x 0.3 m		
Looped fibers:	-		
Instruments:	Binder Climatic Chamber	Last Calibration:	Aug-23

<b>PASS / FAIL CRITERIA:</b>	
L = 300 mm, specimen in vertical position, T = 75°C, t = 24h;	
<b>RESULT:</b>	
No drop visible on wrapping paper after 24h00	
<b>CONCLUSION:</b>	
<b>PASS</b>	

### Test parameters

<b>Test Temperature</b>	<b>75°C</b>	Start at(date/hour) <b>12.11.2024/12:30</b>
<b>Time of Test</b>	<b>24h00</b>	
<b>Number of samples</b>	<b>3</b>	Stop at(date/hour) <b>13.11.2024/12:30</b>
<b>Maximum flow quantity</b>	<b>max. 0.050 g</b>	
<b>Prysmian Requirements</b>	<b>no drip // no drop visible on wrapping paper</b>	

Equipment
<ul style="list-style-type: none"> <li>- Binder climatic chamber</li> <li>- Analytical balance(accuracy = 0.0001 g)</li> <li>- Non hygroscopic containers</li> </ul>



Result summary				
		Requirement	Result	Pass /Fail
Maximum flow quantity	Sample 1	no drip	no drip	Pass
	Sample 2			Pass
	Sample 3			Pass

Date:  
12/11/2024

Performed by:  
A. Bostina

Approved by:  
M. Jianu