

**HOMOLOGATION REPORT
No. 906.24**

**ADSS optical fibre cable
192FO**

**Specification:
TC09376**

SAP Code: 60113104

November, 2024

Slatina, R&D

AUTHOR:
Catalin Mateita
R&D Technician

APPROVED BY:
Florin Chirita
R&D Manager

Qualification tests list

Content	Standards (if applicable)	Result
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
Sheath Marking Abrasion	IEC 60794-1-22-E2B Method 2	Comply
Drip Test	IEC 60794-1-22-E14	Comply
Sheath Abrasion	IEC 60794-1-22-E2A	Comply

The above mentioned ADSS optical fibre cable 192FO type tests have been carried out in accordance with specification TC09376 ,international IEC specifications and internal R&D rules.

Test report

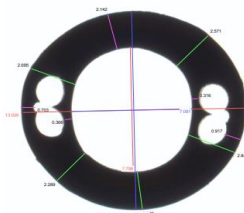
Dimensional measurement

Type of cable:	FAUA FT K0D1E0 192(12BBA1)		
Drum no.:	DWP1400 14561478		
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>PASS / FAIL CRITERIA: The measurements shall be compliant with cable's specification.</p>
<p>RESULT: The following table summarizes the results.</p>
<p>CONCLUSION: PASS</p>

Parameter	Cable documentation	Measurement
# of tubes	16	16
Outer sheath tickness [mm]	2.45 ± 0.15	2.46
Outer sheath Ø [mm]	12.7 ± 0.3	12.62
Cable weight [Kg/Km]	118	119.6

Inner end		
	Dimension	[mm]
Sheath thickness	Min. 2.142	Max. 2.844
	average	2.460
Outer Ø	Min. 12.204	Max. 13.026
	average	12.615



Date:
13/11/2024

Performed by:
M. Pauna

Approved by:
M. Jianu

ATTENUATION MEASUREMENT REPORT

Product Code: 60113104	Batch: RD00021194	Measurement Date: 12/11/2024 11:50
Product Description: FAUA FT K0D1E0 192 16(12BBA1)-TC09376-en	Drum Number: DWP1400-14561478	Instrument ID: PRYRO-OTDR01
Specification: TC09376-en	Cable Length: 2010	Measuring Device: PhotonKinetics 8000i
Customer: CAM 2	Length ID: TEST	Fiber Length: 2017

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): 1310

G.657A1 0.36 0.22 0.24 0.35	
Tube Fiber	Atten. dB/Km
Blue Blue	0.334
Blue Orange	0.334
Blue Green	0.334
Blue Brown	0.336
Blue Grey	0.339
Blue White	0.337
Blue Red	0.335
Blue Black	0.331
Blue Yellow	0.335
Blue Violet	0.336
Blue Turquoise	0.339
Blue Pink	0.335
Orange Blue	0.336
Orange Orange	0.337
Orange Green	0.337
Orange Brown	0.336
Orange Grey	0.342
Orange White	0.337
Orange Red	0.337
Orange Black	0.339
Orange Yellow	0.339
Orange Violet	0.336
Orange Turquoise	0.333
Orange Pink	0.337
Green Blue	0.336
Green Orange	0.335
Green Green	0.331
Green Brown	0.335
Green Grey	0.339
Green White	0.338
Green Red	0.336
Green Black	0.339
Green Yellow	0.349
Green Violet	0.340
Green Turquoise	0.331
Green Pink	0.337
Brown Blue	0.342
Brown Orange	0.338
Brown Green	0.339
Brown Brown	0.339
Brown Grey	0.338
Brown White	0.337
Brown Red	0.339
Brown Black	0.339
Brown Yellow	0.335
Brown Violet	0.334
Brown Turquoise	0.338
Brown Pink	0.330
Grey Blue	0.334

G.657A1 0.36 0.22 0.24 0.35	
Tube Fiber	Atten. dB/Km
Grey Orange	0.338
Grey Green	0.333
Grey Brown	0.335
Grey Grey	0.335
Grey White	0.336
Grey Red	0.337
Grey Black	0.336
Grey Yellow	0.335
Grey Violet	0.342
Grey Turquoise	0.335
Grey Pink	0.333
White Blue	0.338
White Orange	0.335
White Green	0.336
White Brown	0.337
White Grey	0.336
White White	0.336
White Red	0.338
White Black	0.341
White Yellow	0.335
White Violet	0.338
White Turquoise	0.334
White Pink	0.336
Red Blue	0.335
Red Orange	0.338
Red Green	0.335
Red Brown	0.336
Red Grey	0.340
Red White	0.337
Red Red	0.331
Red Black	0.338
Red Yellow	0.339
Red Violet	0.336
Red Turquoise	0.338
Red Pink	0.340
Black Blue	0.334
Black Orange	0.340
Black Green	0.337
Black Brown	0.357
Black Grey	0.335
Black White	0.334
Black Red	0.339
Black Black	0.335
Black Yellow	0.339
Black Violet	0.340
Black Turquoise	0.334
Black Pink	0.336
Yellow Blue	0.334
Yellow Orange	0.337

G.657A1 0.36 0.22 0.24 0.35	
Tube Fiber	Atten. dB/Km
Yellow Green	0.337
Yellow Brown	0.331
Yellow Grey	0.339
Yellow White	0.331
Yellow Red	0.337
Yellow Black	0.340
Yellow Yellow	0.340
Yellow Violet	0.336
Yellow Turquoise	0.334
Yellow Pink	0.335
Violet Blue	0.339
Violet Orange	0.335
Violet Green	0.339
Violet Brown	0.335
Violet Grey	0.335
Violet White	0.334
Violet Red	0.333
Violet Black	0.335
Violet Yellow	0.332
Violet Violet	0.337
Violet Turquoise	0.334
Violet Pink	0.336
Turquoise Blue	0.337
Turquoise Orange	0.334
Turquoise Green	0.338
Turquoise Brown	0.339
Turquoise Grey	0.338
Turquoise White	0.333
Turquoise Red	0.334
Turquoise Black	0.340
Turquoise Yellow	0.338
Turquoise Violet	0.337
Turquoise Turquoise	0.335
Turquoise Pink	0.338
Pink Blue	0.341
Pink Orange	0.336
Pink Green	0.339
Pink Brown	0.332
Pink Grey	0.333
Pink White	0.336
Pink Red	0.336
Pink Black	0.338
Pink Yellow	0.335
Pink Violet	0.335
Pink Turquoise	0.335
Pink Pink	0.335
Blue# Blue	0.339
Blue# Orange	0.338
Blue# Green	0.336

G.657A1 0.36 0.22 0.24 0.35	
Tube Fiber	Atten. dB/Km
Blue# Brown	0.336
Blue# Grey	0.336
Blue# White	0.336
Blue# Red	0.337
Blue# Black	0.336
Blue# Yellow	0.334
Blue# Violet	0.339
Blue# Turquoise	0.336
Blue# Pink	0.333
Orange# Blue	0.341
Orange# Orange	0.337
Orange# Green	0.337
Orange# Brown	0.338
Orange# Grey	0.331
Orange# White	0.339
Orange# Red	0.332
Orange# Black	0.338
Orange# Yellow	0.337
Orange# Violet	0.337
Orange# Turquoise	0.333
Orange# Pink	0.334
Green# Blue	0.338
Green# Orange	0.336
Green# Green	0.337
Green# Brown	0.335
Green# Grey	0.333
Green# White	0.338
Green# Red	0.334
Green# Black	0.335
Green# Yellow	0.341
Green# Violet	0.336
Green# Turquoise	0.335
Green# Pink	0.334
Brown# Blue	0.338
Brown# Orange	0.335
Brown# Green	0.336
Brown# Brown	0.335
Brown# Grey	0.337
Brown# White	0.331
Brown# Red	0.335
Brown# Black	0.338
Brown# Yellow	0.338
Brown# Violet	0.338
Brown# Turquoise	0.338
Brown# Pink	0.338
	Maximum
	0.357
	Average
	0.336
	Limit
	0.360

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
Blue Blue	0.301
Blue Orange	0.284
Blue Green	0.254
Blue Brown	0.274
Blue Grey	0.276
Blue White	0.286
Blue Red	0.300
Blue Black	0.279
Blue Yellow	0.253
Blue Violet	0.249
Blue Turquoise	0.277
Blue Pink	0.265
Orange Blue	0.265
Orange Orange	0.279
Orange Green	0.273
Orange Brown	0.288
Orange Grey	0.289
Orange White	0.275
Orange Red	0.298
Orange Black	0.277
Orange Yellow	0.279
Orange Violet	0.271
Orange Turquoise	0.258
Orange Pink	0.283
Green Blue	0.289
Green Orange	0.323
Green Green	0.293
Green Brown	0.289
Green Grey	0.261
Green White	0.290
Green Red	0.254
Green Black	0.265
Green Yellow	0.161
Green Violet	0.282
Green Turquoise	0.250
Green Pink	0.275
Brown Blue	0.273
Brown Orange	0.282
Brown Green	0.266
Brown Brown	0.284
Brown Grey	0.258
Brown White	0.260
Brown Red	0.257
Brown Black	0.282
Brown Yellow	0.286
Brown Violet	0.259
Brown Turquoise	0.261
Brown Pink	0.249
Grey Blue	0.238
Grey Orange	0.289
Grey Green	0.263
Grey Brown	0.263
Grey Grey	0.267
Grey White	0.269
Grey Red	0.293
Grey Black	0.289
Grey Yellow	0.284
Grey Violet	0.295
Grey Turquoise	0.280
Grey Pink	0.271
White Blue	0.293
White Orange	0.265

Wavelength (nm): 1383

G.657A1 0.36 0.22 0.24 0.35	
Tube Fiber	Atten. dB/Km
White Green	0.283
White Brown	0.274
White Grey	0.253
White White	0.273
White Red	0.301
White Black	0.293
White Yellow	0.245
White Violet	0.271
White Turquoise	0.285
White Pink	0.253
Red Blue	0.254
Red Orange	0.248
Red Green	0.284
Red Brown	0.284
Red Grey	0.205
Red White	0.271
Red Red	0.268
Red Black	0.285
Red Yellow	0.268
Red Violet	0.268
Red Turquoise	0.290
Red Pink	0.290
Black Blue	0.259
Black Orange	0.285
Black Green	0.266
Black Brown	0.261
Black Grey	0.282
Black White	0.289
Black Red	0.266
Black Black	0.300
Black Yellow	0.287
Black Violet	0.261
Black Turquoise	0.268
Black Pink	0.268
Yellow Blue	0.253
Yellow Orange	0.271
Yellow Green	0.270
Yellow Brown	0.256
Yellow Grey	0.283
Yellow White	0.263
Yellow Red	0.274
Yellow Black	0.277
Yellow Yellow	0.273
Yellow Violet	0.276
Yellow Turquoise	0.290
Yellow Pink	0.274
Violet Blue	0.271
Violet Orange	0.268
Violet Green	0.271
Violet Brown	0.280
Violet Grey	0.266
Violet White	0.275
Violet Red	0.255
Violet Black	0.261
Violet Yellow	0.277
Violet Violet	0.295
Violet Turquoise	0.243
Violet Pink	0.260
Turquoise Blue	0.264
Turquoise Orange	0.269
Turquoise Green	0.269
Turquoise Brown	0.233

Wavelength (nm): 1383

G.657A1 0.36 0.22 0.24 0.35	
Tube Fiber	Atten. dB/Km
Turquoise Grey	0.298
Turquoise White	0.291
Turquoise Red	0.278
Turquoise Black	0.285
Turquoise Yellow	0.286
Turquoise Violet	0.293
Turquoise Turquoise	0.280
Turquoise Pink	0.262
Pink Blue	0.253
Pink Orange	0.274
Pink Green	0.265
Pink Brown	0.282
Pink Grey	0.283
Pink White	0.257
Pink Red	0.276
Pink Black	0.303
Pink Yellow	0.272
Pink Violet	0.304
Pink Turquoise	0.298
Pink Pink	0.299
Blue# Blue	0.268
Blue# Orange	0.279
Blue# Green	0.308
Blue# Brown	0.275
Blue# Grey	0.301
Blue# White	0.276
Blue# Red	0.304
Blue# Black	0.283
Blue# Yellow	0.243
Blue# Violet	0.253
Blue# Turquoise	0.283
Blue# Pink	0.291
Orange# Blue	0.278
Orange# Orange	0.285
Orange# Green	0.278
Orange# Brown	0.270
Orange# Grey	0.275
Orange# White	0.235
Orange# Red	0.300
Orange# Black	0.267
Orange# Yellow	0.277
Orange# Violet	0.244
Orange# Turquoise	0.273
Orange# Pink	0.260
Green# Blue	0.259
Green# Orange	0.288
Green# Green	0.284
Green# Brown	0.292
Green# Grey	0.300
Green# White	0.276
Green# Red	0.289
Green# Black	0.290
Green# Yellow	0.291
Green# Violet	0.249
Green# Turquoise	0.280
Green# Pink	0.279
Brown# Blue	0.265
Brown# Orange	0.276
Brown# Green	0.297
Brown# Brown	0.265
Brown# Grey	0.277
Brown# White	0.271

Wavelength (nm): 1383

G.657A1 0.36 0.22 0.24 0.35		
Tube Fiber	Atten. dB/Km	
Brown# Red	0.249	
Brown# Black	0.292	
Brown# Yellow	0.294	
Brown# Violet	0.291	
Brown# Turquoise	0.270	
Brown# Pink	0.272	
Maximum		0.323
Average		0.274
Limit		0.350

Wavelength (nm): 1550

G.657A1 0.36 0.22 0.24 0.35	
Tube Fiber	Atten. dB/Km
Blue Blue	0.187
Blue Orange	0.187
Blue Green	0.187
Blue Brown	0.184
Blue Grey	0.186
Blue White	0.185
Blue Red	0.185
Blue Black	0.183
Blue Yellow	0.184
Blue Violet	0.187
Blue Turquoise	0.187
Blue Pink	0.186
Orange Blue	0.187
Orange Orange	0.187
Orange Green	0.190
Orange Brown	0.187
Orange Grey	0.191
Orange White	0.188
Orange Red	0.187
Orange Black	0.189
Orange Yellow	0.188
Orange Violet	0.189
Orange Turquoise	0.187
Orange Pink	0.186
Green Blue	0.187
Green Orange	0.186
Green Green	0.184
Green Brown	0.186
Green Grey	0.188
Green White	0.187
Green Red	0.186
Green Black	0.188
Green Yellow	0.195
Green Violet	0.191
Green Turquoise	0.185
Green Pink	0.189
Brown Blue	0.188
Brown Orange	0.187
Brown Green	0.187
Brown Brown	0.189
Brown Grey	0.189
Brown White	0.188
Brown Red	0.189
Brown Black	0.186
Brown Yellow	0.184
Brown Violet	0.186
Brown Turquoise	0.189

Production Operator:
Quality Inspector: CHITUCEA

Finish Goods Inspector
Lungu Ionut



Wavelength (nm): 1550

Wavelength (nm): 1550

Wavelength (nm): 1550

Wavelength (nm): 1625

G.657A1 0.36 0.22 0.24 0.35	
Tube Fiber	Atten. dB/Km
Brown Pink	0.183
Grey Blue	0.184
Grey Orange	0.189
Grey Green	0.187
Grey Brown	0.186
Grey Grey	0.185
Grey White	0.184
Grey Red	0.187
Grey Black	0.189
Grey Yellow	0.187
Grey Violet	0.191
Grey Turquoise	0.185
Grey Pink	0.188
White Blue	0.188
White Orange	0.186
White Green	0.188
White Brown	0.186
White Grey	0.187
White White	0.187
White Red	0.188
White Black	0.187
White Yellow	0.186
White Violet	0.186
White Turquoise	0.188
White Pink	0.187
Red Blue	0.185
Red Orange	0.187
Red Green	0.185
Red Brown	0.188
Red Grey	0.181
Red White	0.184
Red Red	0.184
Red Black	0.188
Red Yellow	0.190
Red Violet	0.185
Red Turquoise	0.191
Red Pink	0.190
Black Blue	0.184
Black Orange	0.188
Black Green	0.185
Black Brown	0.189
Black Grey	0.187
Black White	0.186
Black Red	0.187
Black Black	0.186
Black Yellow	0.187
Black Violet	0.188
Black Turquoise	0.185
Black Pink	0.186
Yellow Blue	0.185
Yellow Orange	0.189
Yellow Green	0.190
Yellow Brown	0.184
Yellow Grey	0.187
Yellow White	0.182
Yellow Red	0.189
Yellow Black	0.188
Yellow Yellow	0.189
Yellow Violet	0.186
Yellow Turquoise	0.184
Yellow Pink	0.186
Violet Blue	0.189

G.657A1 0.36 0.22 0.24 0.35	
Tube Fiber	Atten. dB/Km
Violet Orange	0.185
Violet Green	0.188
Violet Brown	0.187
Violet Grey	0.188
Violet White	0.186
Violet Red	0.188
Violet Black	0.187
Violet Yellow	0.185
Violet Violet	0.189
Violet Turquoise	0.184
Violet Pink	0.185
Turquoise Blue	0.189
Turquoise Orange	0.187
Turquoise Green	0.186
Turquoise Brown	0.186
Turquoise Grey	0.190
Turquoise White	0.187
Turquoise Red	0.187
Turquoise Black	0.188
Turquoise Yellow	0.189
Turquoise Violet	0.186
Turquoise Turquoise	0.182
Turquoise Pink	0.184
Pink Blue	0.190
Pink Orange	0.186
Pink Green	0.190
Pink Brown	0.182
Pink Grey	0.188
Pink White	0.188
Pink Red	0.186
Pink Black	0.190
Pink Yellow	0.187
Pink Violet	0.187
Pink Turquoise	0.187
Pink Pink	0.187
Blue# Blue	0.186
Blue# Orange	0.187
Blue# Green	0.188
Blue# Brown	0.188
Blue# Grey	0.187
Blue# White	0.186
Blue# Red	0.189
Blue# Black	0.187
Blue# Yellow	0.188
Blue# Violet	0.190
Blue# Turquoise	0.188
Blue# Pink	0.183
Orange# Blue	0.188
Orange# Orange	0.188
Orange# Green	0.189
Orange# Brown	0.187
Orange# Grey	0.192
Orange# White	0.186
Orange# Red	0.187
Orange# Black	0.187
Orange# Yellow	0.186
Orange# Violet	0.188
Orange# Turquoise	0.188
Orange# Pink	0.186
Green# Blue	0.186
Green# Orange	0.189
Green# Green	0.188

G.657A1 0.36 0.22 0.24 0.35	
Tube Fiber	Atten. dB/Km
Green# Brown	0.187
Green# Grey	0.186
Green# White	0.187
Green# Red	0.188
Green# Black	0.182
Green# Yellow	0.186
Green# Violet	0.186
Green# Turquoise	0.184
Green# Pink	0.185
Brown# Blue	0.188
Brown# Orange	0.188
Brown# Green	0.188
Brown# Brown	0.187
Brown# Grey	0.188
Brown# White	0.185
Brown# Red	0.186
Brown# Black	0.186
Brown# Yellow	0.190
Brown# Violet	0.189
Brown# Turquoise	0.186
Brown# Pink	0.185
Maximum	
Avgerage	
Limit	
	0.195
	0.187
	0.220

Wavelength (nm): 1625

G.657A1 0.36 0.22 0.24 0.35	
Tube Fiber	Atten. dB/Km
Blue Blue	0.198
Blue Orange	0.196
Blue Green	0.197
Blue Brown	0.197
Blue Grey	0.197
Blue White	0.196
Blue Red	0.196
Blue Black	0.197
Blue Yellow	0.196
Blue Violet	0.196
Blue Turquoise	0.197
Blue Pink	0.197
Orange Blue	0.199
Orange Orange	0.196
Orange Green	0.200
Orange Brown	0.197
Orange Grey	0.202
Orange White	0.196
Orange Red	0.198
Orange Black	0.198
Orange Yellow	0.201
Orange Violet	0.199
Orange Turquoise	0.196
Orange Pink	0.200
Green Blue	0.197
Green Orange	0.195
Green Green	0.196
Green Brown	0.198
Green Grey	0.199
Green White	0.198
Green Red	0.198
Green Black	0.199

G.657A1 0.36 0.22 0.24 0.35	
Tube Fiber	Atten. dB/Km
Green Yellow	0.204
Green Violet	0.208
Green Turquoise	0.196
Green Pink	0.200
Brown Blue	0.199
Brown Orange	0.199
Brown Green	0.200
Brown Brown	0.200
Brown Grey	0.199
Brown White	0.200
Brown Red	0.202
Brown Black	0.195
Brown Yellow	0.197
Brown Violet	0.198
Brown Turquoise	0.200
Brown Pink	0.192
Grey Blue	0.196
Grey Orange	0.198
Grey Green	0.195
Grey Brown	0.196
Grey Grey	0.198
Grey White	0.198
Grey Red	0.199
Grey Black	0.198
Grey Yellow	0.198
Grey Violet	0.201
Grey Turquoise	0.196
Grey Pink	0.198
White Blue	0.200
White Orange	0.197
White Green	0.199
White Brown	0.199
White Grey	0.198
White White	0.198
White Red	0.198
White Black	0.199
White Yellow	0.196
White Violet	0.198
White Turquoise	0.197
White Pink	0.198
Red Blue	0.198
Red Orange	0.196
Red Green	0.196
Red Brown	0.198
Red Grey	0.199
Red White	0.198
Red Red	0.196
Red Black	0.199
Red Yellow	0.201
Red Violet	0.196
Red Turquoise	0.199
Red Pink	0.199
Black Blue	0.197
Black Orange	0.199
Black Green	0.199
Black Brown	0.198
Black Grey	0.197
Black White	0.197
Black Black	0.198
Black Yellow	0.199
Black Violet	0.199

Production Operator:
Quality Inspector: CHITUCEA

Finish Goods Inspector
Lungu Ionut



Wavelength (nm): 1625

G.657A1 0.36 0.22 0.24 0.35	
Tube Fiber	Atten. dB/Km
Black Turquoise	0.198
Black Pink	0.198
Yellow Blue	0.199
Yellow Orange	0.200
Yellow Green	0.201
Yellow Brown	0.195
Yellow Grey	0.200
Yellow White	0.196
Yellow Red	0.201
Yellow Black	0.199
Yellow Yellow	0.198
Yellow Violet	0.199
Yellow Turquoise	0.194
Yellow Pink	0.198
Violet Blue	0.199
Violet Orange	0.195
Violet Green	0.199
Violet Brown	0.198
Violet Grey	0.199
Violet White	0.198
Violet Red	0.198
Violet Black	0.197
Violet Yellow	0.195
Violet Violet	0.199
Violet Turquoise	0.194
Violet Pink	0.195
Turquoise Blue	0.199
Turquoise Orange	0.197
Turquoise Green	0.200
Turquoise Brown	0.199
Turquoise Grey	0.200
Turquoise White	0.196
Turquoise Red	0.200
Turquoise Black	0.198
Turquoise Yellow	0.199
Turquoise Violet	0.199
Turquoise Turquoise	0.198
Turquoise Pink	0.198
Pink Blue	0.198
Pink Orange	0.199
Pink Green	0.202
Pink Brown	0.195
Pink Grey	0.198
Pink White	0.199
Pink Red	0.198
Pink Black	0.200
Pink Yellow	0.199
Pink Violet	0.196
Pink Turquoise	0.198
Pink Pink	0.198
Blue# Blue	0.200
Blue# Orange	0.197
Blue# Green	0.200
Blue# Brown	0.199
Blue# Grey	0.197
Blue# White	0.199
Blue# Red	0.200
Blue# Black	0.198
Blue# Yellow	0.201
Blue# Violet	0.201
Blue# Turquoise	0.200
Blue# Pink	0.198

Wavelength (nm): 1625

G.657A1 0.36 0.22 0.24 0.35	
Tube Fiber	Atten. dB/Km
Orange# Blue	0.197
Orange# Orange	0.198
Orange# Green	0.199
Orange# Brown	0.199
Orange# Grey	0.201
Orange# White	0.199
Orange# Red	0.198
Orange# Black	0.199
Orange# Yellow	0.197
Orange# Violet	0.199
Orange# Turquoise	0.197
Orange# Pink	0.198
Green# Blue	0.197
Green# Orange	0.200
Green# Green	0.198
Green# Brown	0.201
Green# Grey	0.199
Green# White	0.197
Green# Red	0.196
Green# Black	0.197
Green# Yellow	0.198
Green# Violet	0.197
Green# Turquoise	0.196
Green# Pink	0.195
Brown# Blue	0.202
Brown# Orange	0.199
Brown# Green	0.198
Brown# Brown	0.199
Brown# Grey	0.198
Brown# White	0.194
Brown# Red	0.196
Brown# Black	0.200
Brown# Yellow	0.204
Brown# Violet	0.200
Brown# Turquoise	0.199
Brown# Pink	0.196
Maximum	0.208
Average	0.198
Limit	0.240

Production Operator:
Quality Inspector: CHITUCEA

Finish Goods Inspector
Lungu Ionut

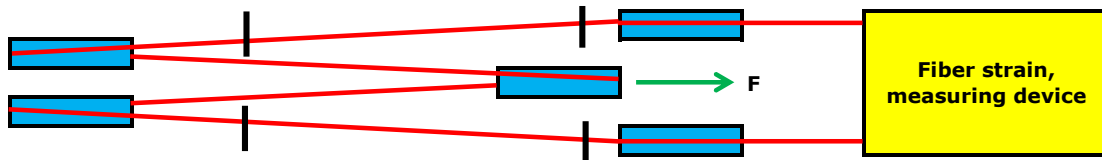


Test report

Tensile performance

Type of cable:	FAUA FT KOD1E0 192(12BBA1)		
Drum no.:	DWP1400 14561478		
Specification:	TC09376		
Laboratory:	Prysmian Group Cabluri si Sisteme, Slatina		
Test standard:	IEC 60794-1-21 E1		
Length under test:	147 m		
Fibers under test:	12 by 12 different channels		
Instruments:	Load cell 5000 Kgf, ASA-RT-ATBCX120	Calibration due date:	Dec-24
	Fiber strain CD500	Calibration due date:	Apr-24

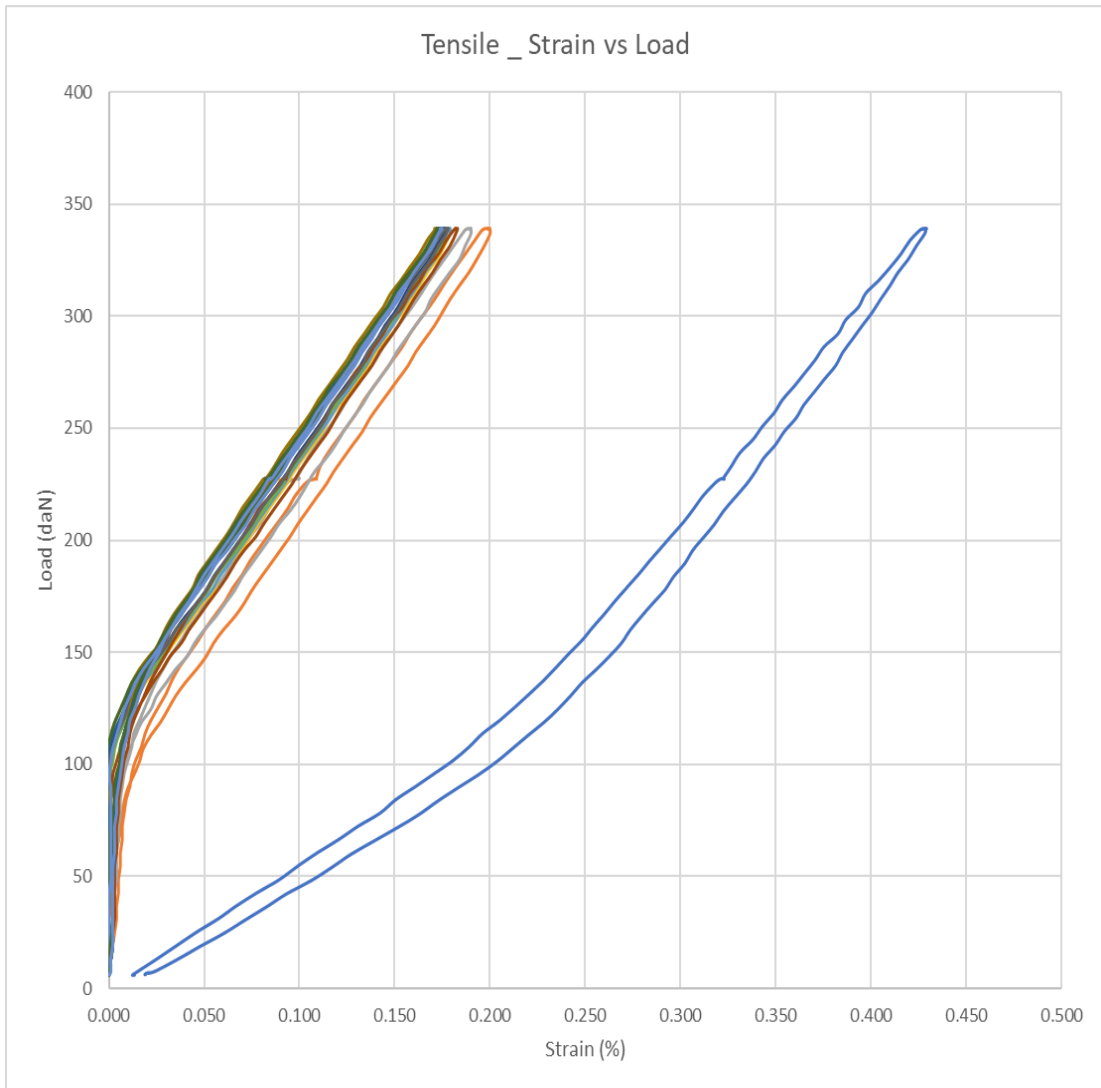
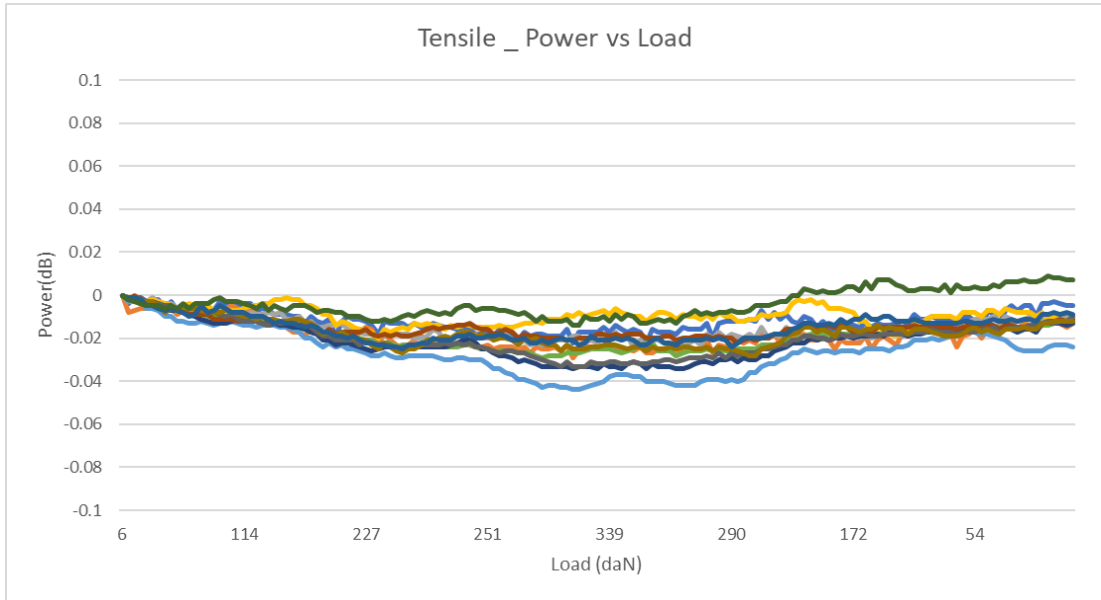
PASS / FAIL CRITERIA:
3340N, 5 min, $\Delta l/l \leq 0.2\%$, $\Delta\alpha \leq 0.5$ dB/km, reversible;
RESULT:
@ 3340N, max $\Delta l/l$ fibers = 0.200 %, max $\Delta l/l$ cable = 0.429%, max $\Delta\alpha$ = 0.044 dB, reversible;
CONCLUSION:
PASS



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



Set-up Picture



Date:
13/11/2024

Performed by:
A. Bostina

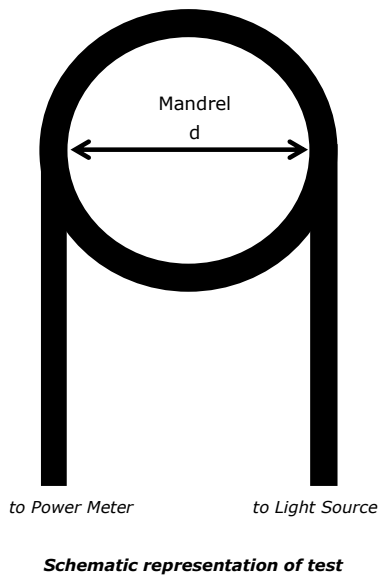
Approved by:
M. Jianu

Test report

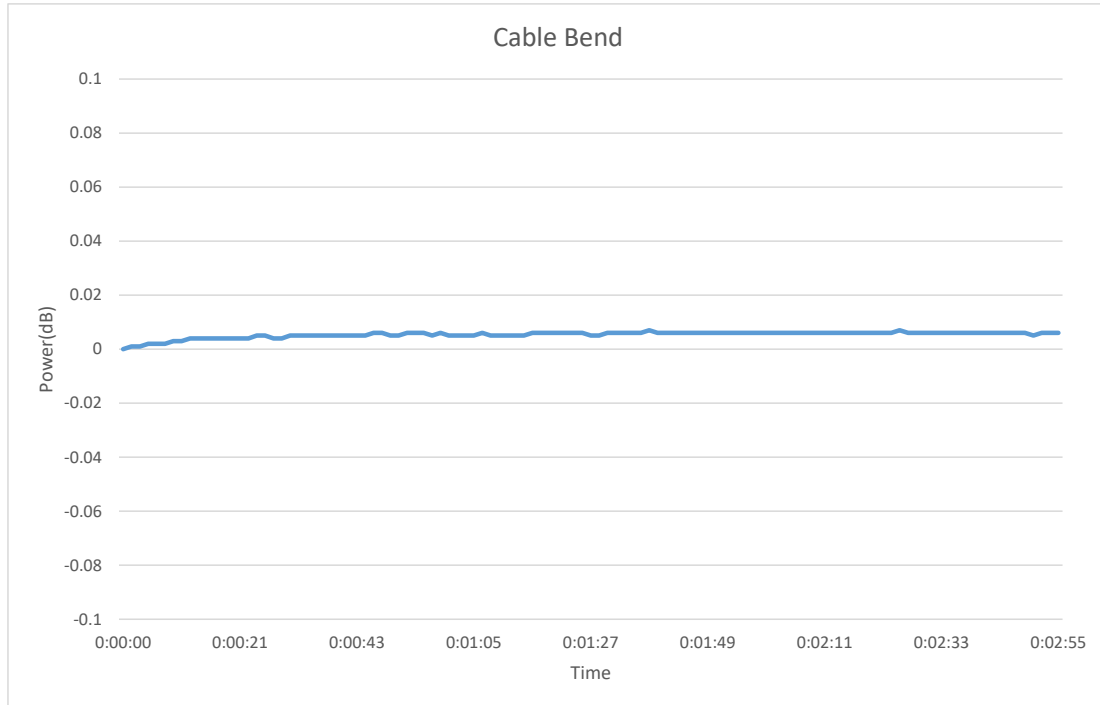
Cable bend

Type of cable:	FAUA FT KOD1E0 192(12BBA1)		
Drum no.:	DWP1400 14561478		
Specification:	TC09376		
Laboratory:	Prysmian Group Cabluri si Sisteme, Slatina		
Test standard:	IEC 60794-1-21 E11		
Length under test:	54 m		
Fibers spliced in loop:	24		
Instruments:	Laboratory bend test device	Calibration due date:	N/A
	Fiber strain CD500	Calibration due date:	Apr-24

PASS / FAIL CRITERIA: R = 10 x OD, 5 turns, 3 cycles, $\Delta\alpha \leq 0.05$ dB, reversible;
RESULT: 3 cycles x 5 turns; mandrel $\varnothing 254$ mm; max $\Delta\alpha = 0.007$ dB, $\Delta\alpha$ reversible;
CONCLUSION: PASS



Test results		
Cable bend test no. / No. of cycles	Mandrel Ø (mm)	Max. att. change during test/loop [dB]
1/ 3	254	0.007



Date:
13/11/2024

Performed by:
A. Bostina

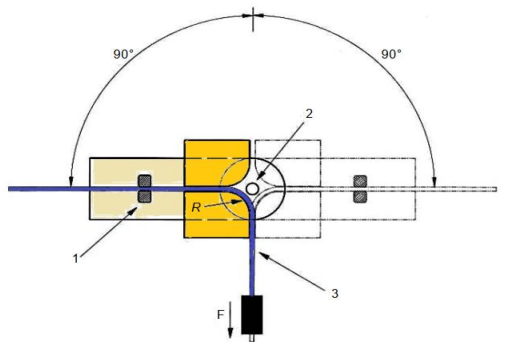
Approved by:
M. Jianu

Test report

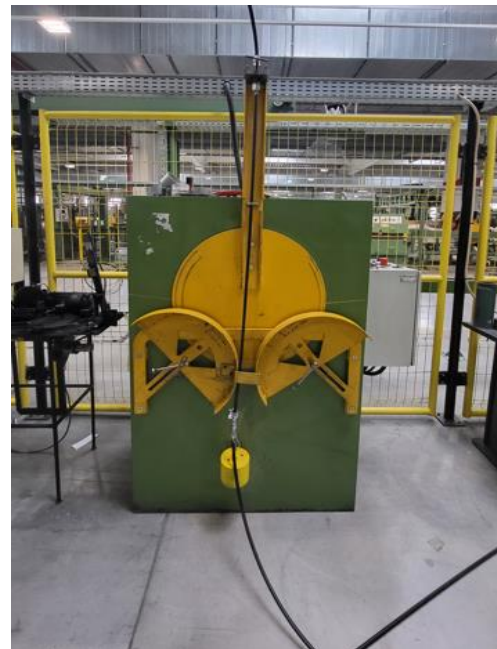
Repeated bending

Type of cable:	FAUA FT K0D1E0 192(12BBA1)	Calibration due date:	N/A
Drum no.:	DWP1400 14561478	Calibration due date:	Apr-24
Specification:	TC09376		
Laboratory:	Prysmian Group Cabluri si Sisteme, Slatina		
Test standard:	IEC 60794-1-2-E6		
Length under test:	54 m		
Fibers spliced in loop:	24		
Instruments:	Laboratory repeated bending test device		
	Fiber strain CD500		

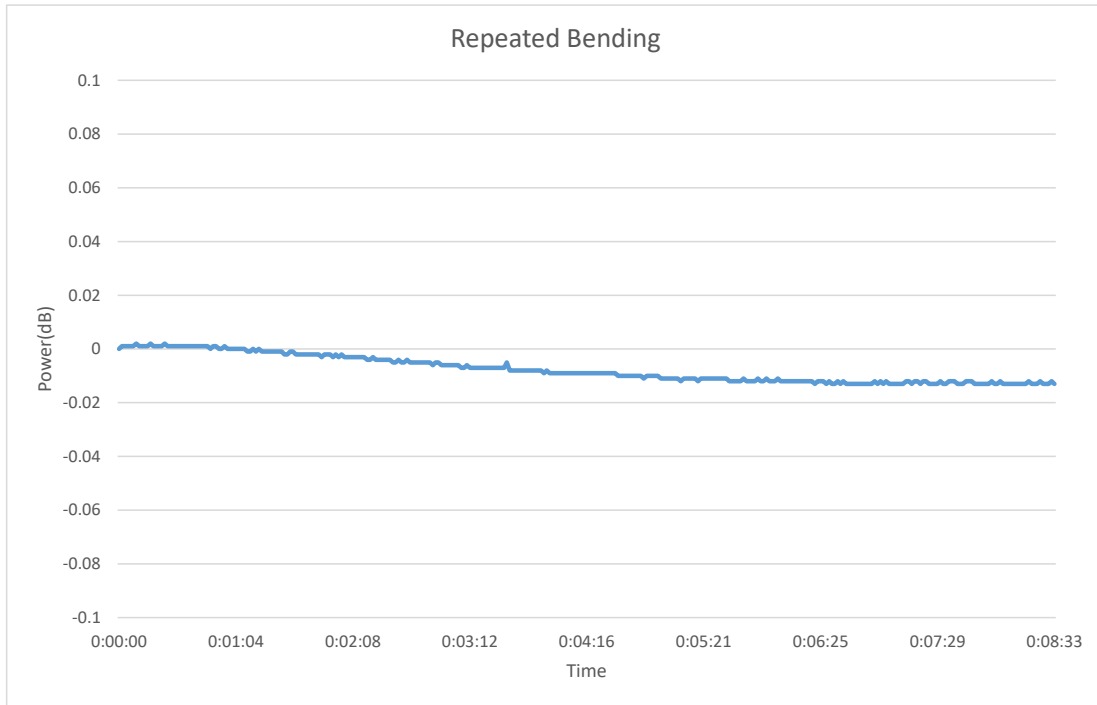
PASS / FAIL CRITERIA: 50 cycles; $R = 20 \times OD$, $\Delta\alpha \leq 0.05$ dB, reversible;
RESULT: 50 cycles, mandrel $\varnothing 508$ mm, Max. $\Delta\alpha = 0.013$ dB, no damage;
CONCLUSION: PASS



- 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	0.013



Date:
13/11/2024

Performed by:
A. Bostina

Approved by:
M. Jianu

Test report

Crush test

Type of cable:	FAUA FT KOD1E0 192(12BBA1)		
Drum no.:	DWP1400 14561478		
Specification:	TC09376		
Laboratory:	Prysmian Group Cabluri si Sisteme, Slatina		
Test standard:	IEC 60794-1-21 E3		
Length under test:	54 m		
Fibers spliced in loop:	24		
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: 2000 N / 100 mm, 10 min, max $\Delta\alpha = 0.007$ dB;
CONCLUSION: PASS

Test results		
Crush test no.	Load [N]	Max. att. change during test /loop [dB]
1	2000	0.004
2	2000	0.007
3	2000	0.006

#Crush1

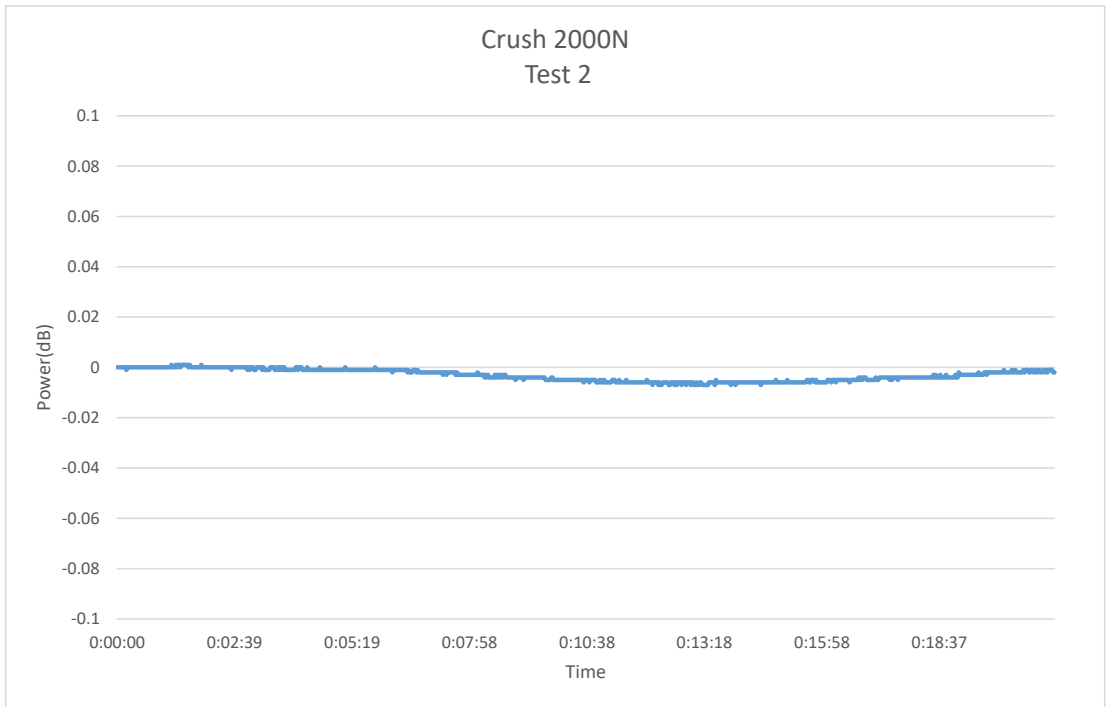
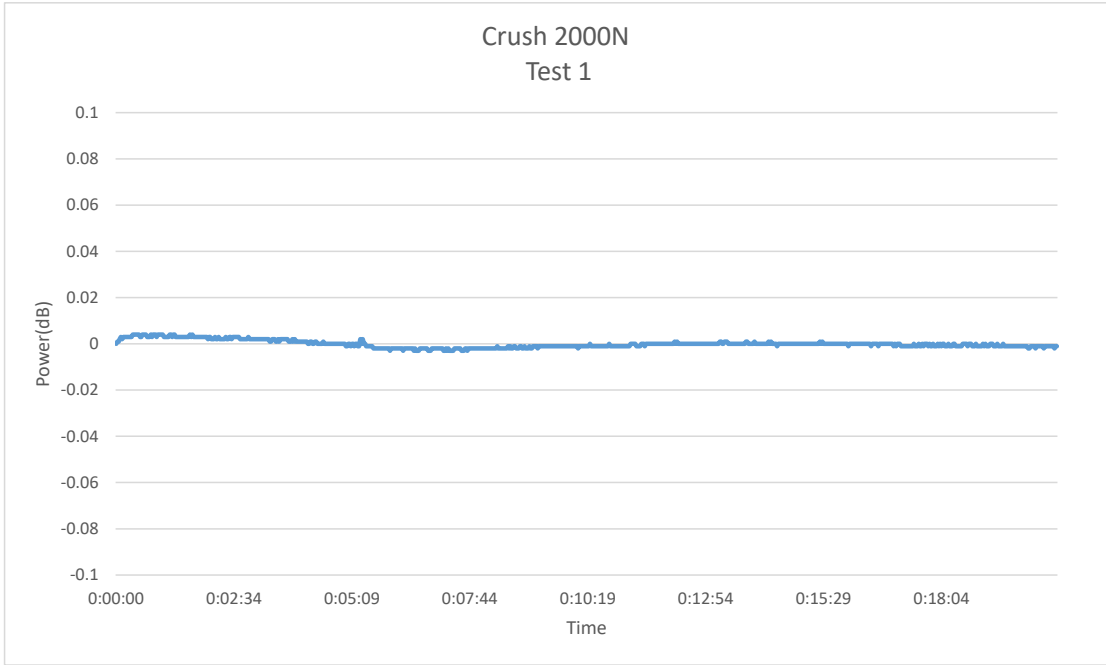


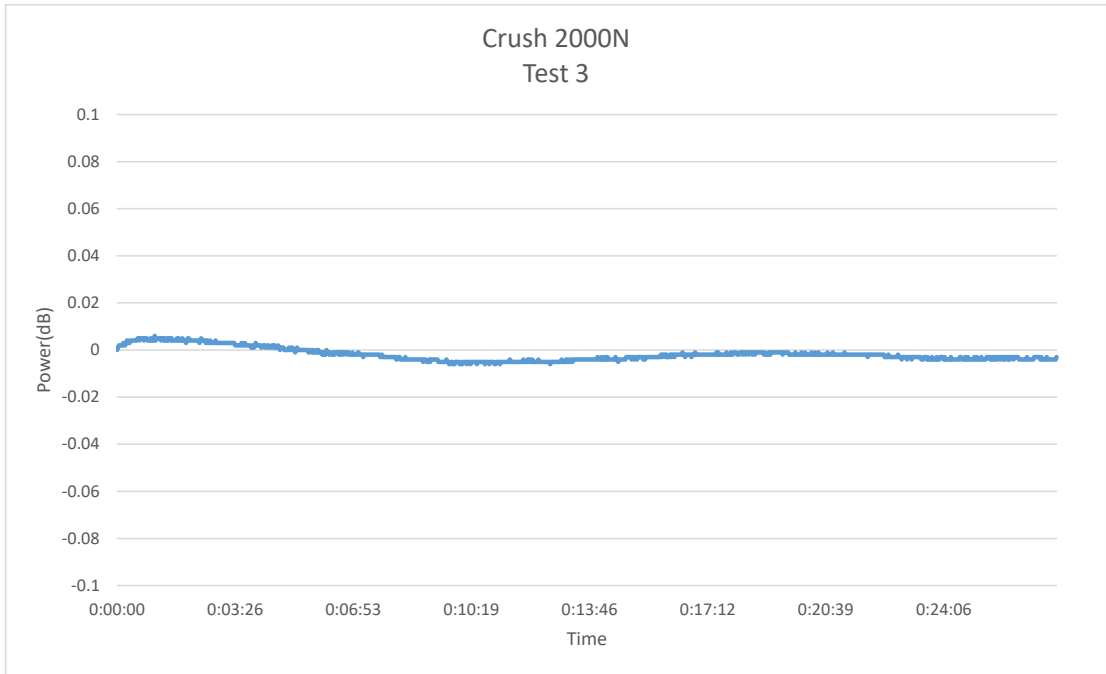
#Crush2



#Crush3







Date:
13/11/2024

Performed by:
C. Oanta

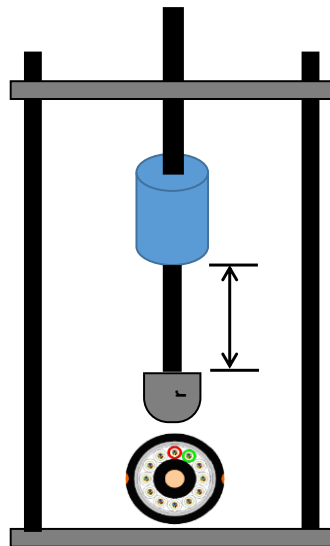
Approved by:
M. Jianu

Test report

Impact test

Type of cable:	FAUA FT K0D1E0 192(12BBA1)		
Drum no.:	DWP1400 14561478		
Specification:	TC09376		
Laboratory:	Prysmian Group Cabluri si Sisteme, Slatina		
Test standard:	IEC 60794-1-21 E4		
Length under test:	54 m		
Fibers spliced in loop:	24		
Instruments:	Laboratory Impact test device	Calibration due date:	NA
	Fiber strain CD500	Calibration due date:	Apr-24

PASS / FAIL CRITERIA: 10 J, 3 impacts , R = 300 mm; $\Delta\alpha \leq 0.05$ dB, reversible, no damage;
RESULT: 10 J, 3 impacts, R = 300 mm, Max. $\Delta\alpha = 0.004$ dB, no damage;
CONCLUSION: PASS



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	0.004

Cable After Test

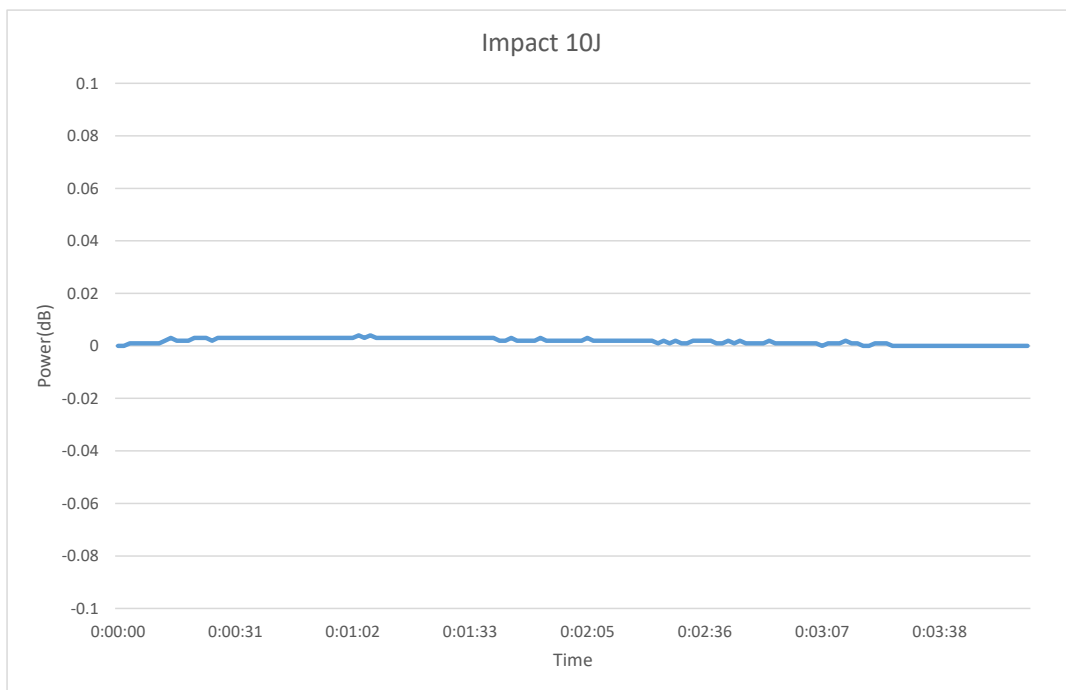
#1



#2



#3



Date:
13/11/2024

Performed by:
A. Bostina

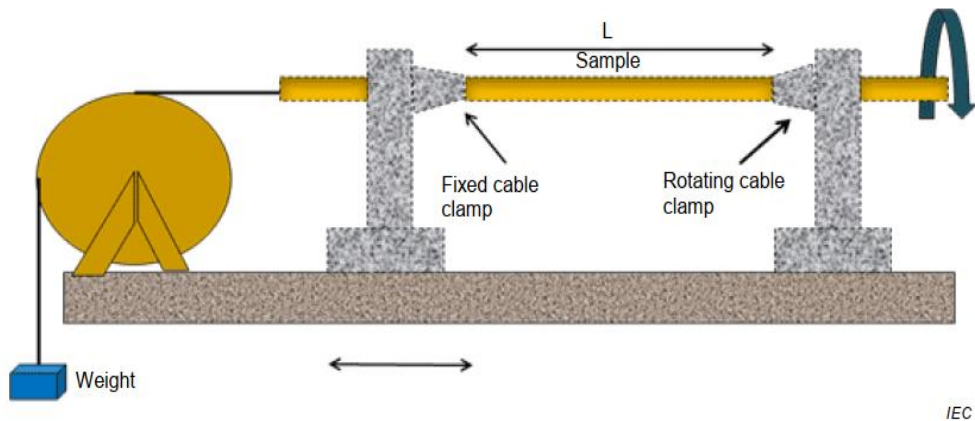
Approved by:
M. Jianu

Test report

Torsion test

Type of cable:	FAUA FT KOD1E0 192(12BBA1)	Calibration due date:	N/A
Drum no.:	DWP1400 14561478	Calibration due date:	Apr-24
Specification:	TC09376		
Laboratory:	Prysmian Group Cabluri si Sisteme, Slatina		
Test standard:	IEC 60794-1-2-E7		
Length under test:	54 m		
Fibers spliced in loop:	24		
Instruments:	Laboratory torsion device		
	Fiber strain CD500		

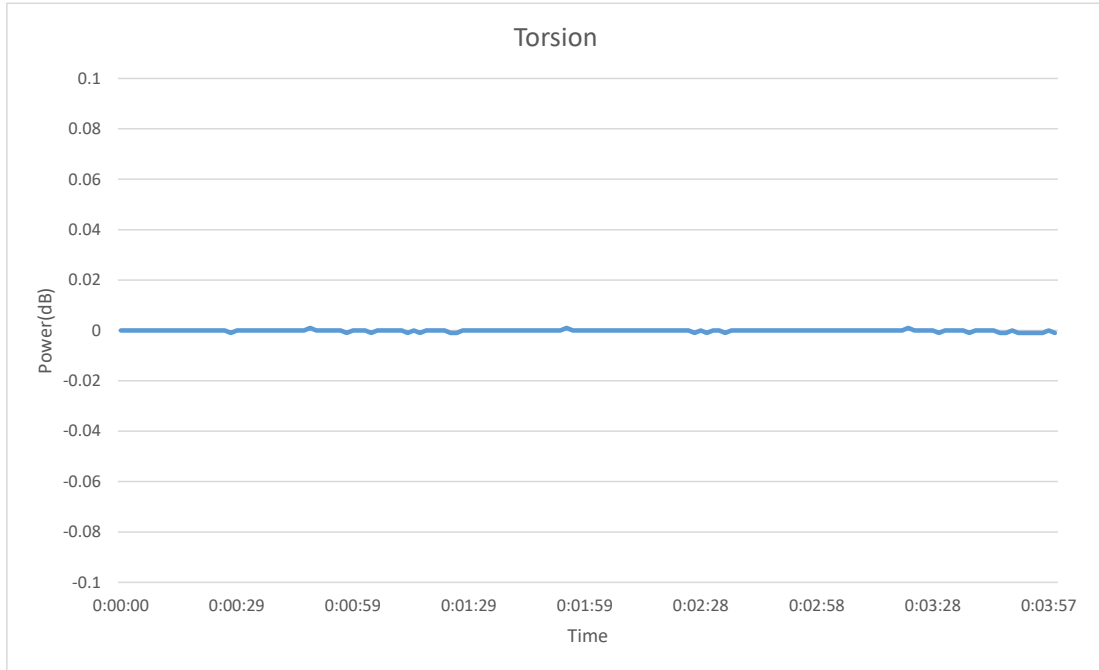
PASS / FAIL CRITERIA: $\pm 180^\circ$, 2 m, 100N, 5 cycles $\Delta\alpha \leq 0.05$ dB, reversible;
RESULT: $\pm 360^\circ$ Max. $\Delta\alpha = 0.001$ dB, no damage;
CONCLUSION: PASS



Set-up Picture



Test results		
Torsion test no.	Length [m]	Max. att. change during test/loop [dB]
1	2	0.001



Date:
13/11/2024

Performed by:
A. Bostina

Approved by:
M. Jianu

Test report

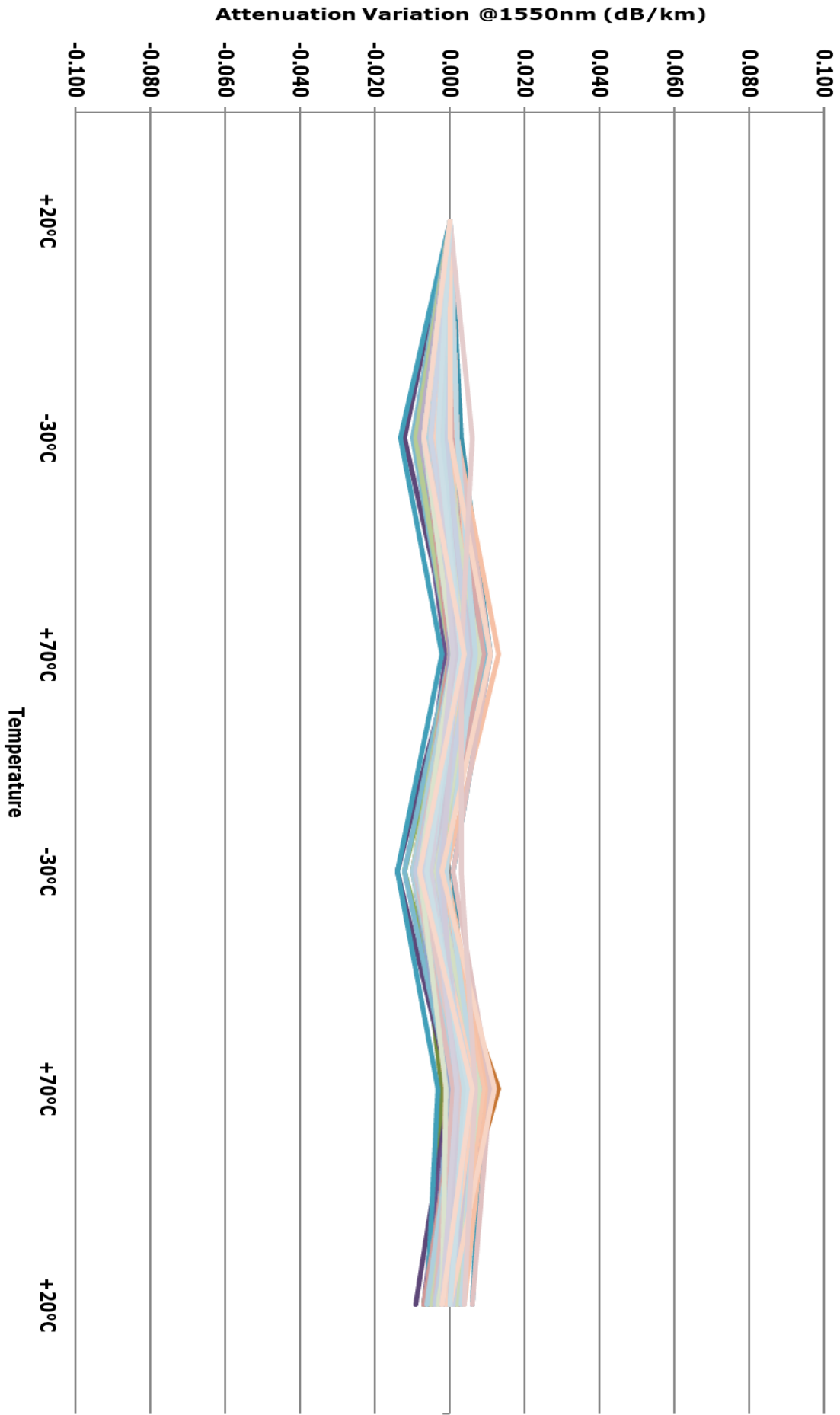
Temperature cycling

Type of cable:	FAUA FT KOD1E0 192(12BBA1)		
Drum no.:	DWP1400-14561478		
Specification:	TC09376		
Laboratory:	Prysmian Group Cabluri si Sisteme, Slatina		
Test standard:	IEC 60794-1-2 F1		
Length under test:	2010 m		
Looped fibers:	-		
Instruments:	Climatic chamber Angelantoni	Calibration due date	Dec-24
	OTDR PK8000	Calibration due date	Nov-24

PASS / FAIL CRITERIA: <p style="text-align: center;">-30°C / +70°C ; @1550nm, $\Delta\alpha \leq 0.1$ dB/km;</p>
RESULT: <p style="text-align: center;">See table below</p>
CONCLUSION: <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	0.014	0.002

Attenuation Variation



Date:
13/11/2024

Performed by:
C. Mateita

Approved by:
M. Jianu

Test report

Water penetration

Type of cable:	FAUA FT KOD1E0 192(12BBA1)		
Drum no.:	DWP1400 14561478		
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:	-

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

Test Results	
Sample No.	Water pen. length [mm]
1	180
2	220
3	260

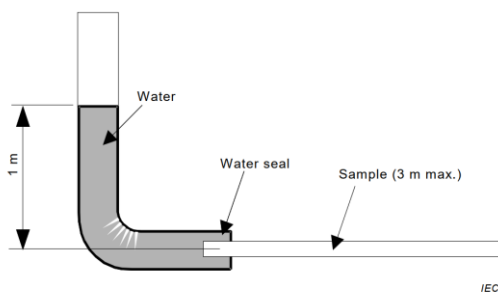


Figure 4 – Test arrangement for method F5B



Date:
13/11/2024

Performed by:
A. Bostina

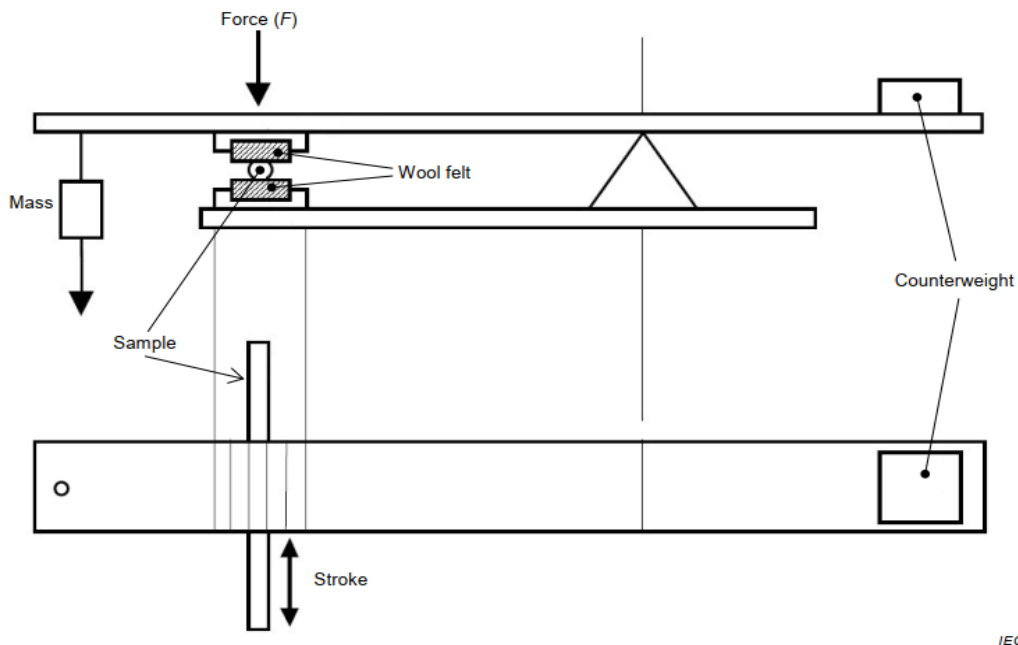
Approved by:
M. Jianu

Test report

Marking abrasion

Type of cable:	FAUA FT KOD1E0 192(12BBA1)		
Drum no.:	DWP1400 14561478		
Specification:	TC09376		
Laboratory:	Prysmian Group Cabluri si Sisteme, Slatina		
Test standard:	IEC 60794-1-21 E2B		
Length under test:	1 m		
Looped fibers:	-		
Instruments:	Abrasion test device	Last Calibration:	-

PASS / FAIL CRITERIA: 300 cycles, 4N, wool felt , legible marking;
RESULT: After 300 cycles, marking is legible;
CONCLUSION: PASS



Schematic representation of test



Marking Before Test



Marking After 300 Cycles

Date:
13/11/2024

Performed by:
C.Oanta

Approved by:
M.Jianu

Test report

Drip Test

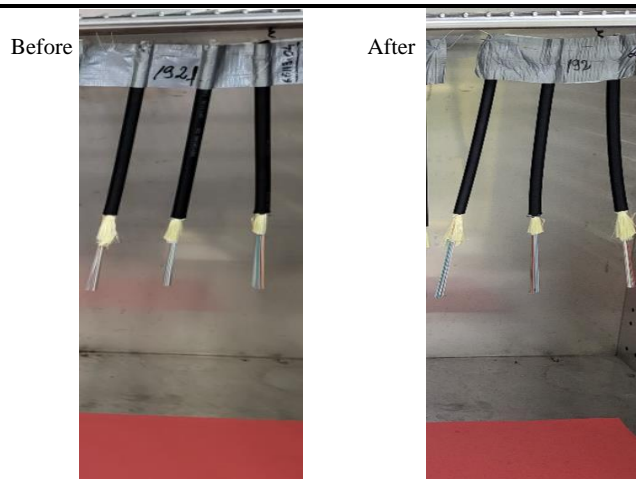
Type of cable:	FAUA FT K0D1E0 192(12BBA1)		
Drum no.:	DWP1400 14561478		
Specification:	TC09376		
Laboratory:	Prysmian Group Cabluri si Sisteme, Slatina		
Test standard:	IEC 60794-1-2 E14		
Length under test:	3 x 0.3 m		
Looped fibers:	-		
Instruments:	Binder Climatic Chamber	Last Calibration:	Aug-23

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

Test parameters

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

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



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

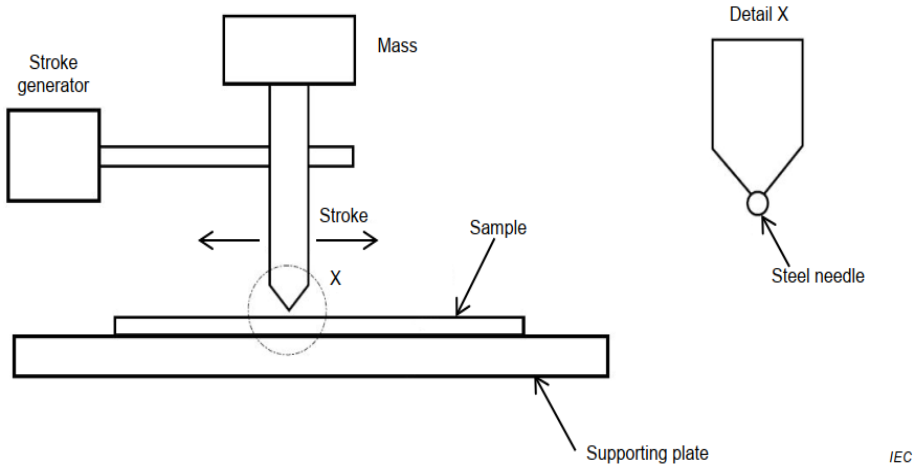
Approved by:
M. Jianu

Test report

Sheath abrasion

Type of cable:	FUDI - LT - G0E0 - G0E0144SM(12)	
Drum no.:	DWP1100 11522655	
Specification:	TDS4017_RO v20	
Laboratory:	Prysmian Group Cabluri si Sisteme, Slatina	
Test standard:	IEC 60794-1-21-E2A	
Length under test:	1 m	
Looped fibers:	-	
Instruments:	Abrasion test device	Last Calibration: -

PASS / FAIL CRITERIA:	0.75 m sample, 55 ± 5 cycles/min, 300 cycles, 4 N load, 4 abrasions, 100 mm distance between successive abrasions with 90° rotation	
RESULT:	After 300 cycles, sheath maintained the integrity;	
CONCLUSION:	PASS	

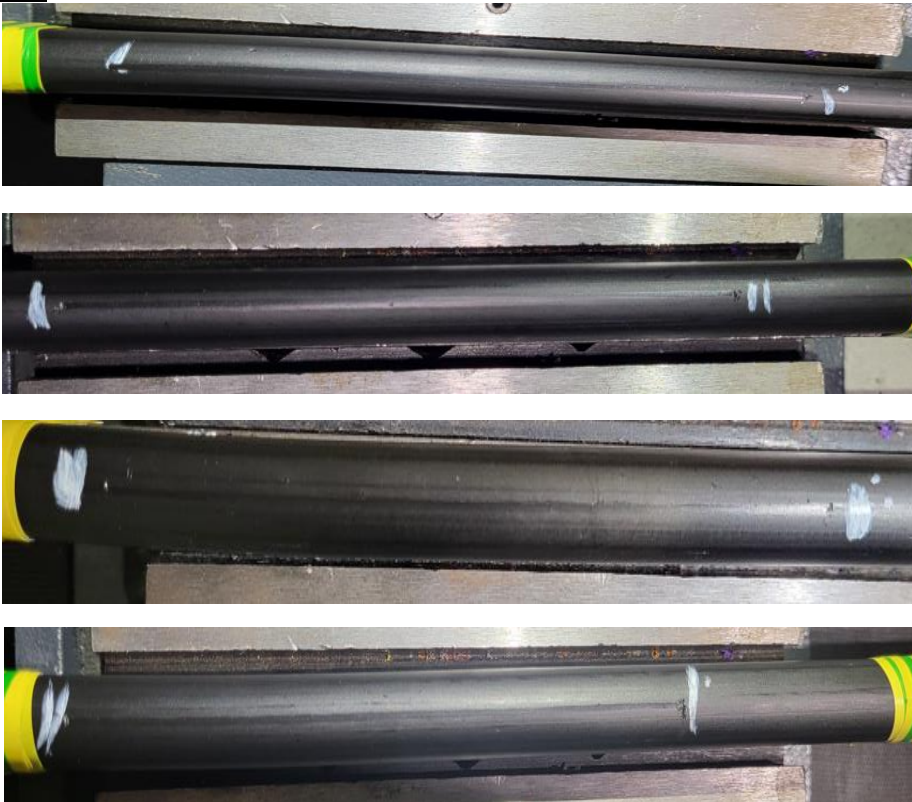


Schematic representation of test

Sheath Before Test



Sheath After 300 Cycles



Date:
13/11/2024

Performed by:
C. Oanta

Approved by:
M. Jianu