

Project:	V502/503, OPGW, FV, ZL: TR Říp – st.č. 187
Conductor / earth wire / OPGW	OPGW
Designation:	KZL – ASLH-D(S)bb 2 x 48 SMF G.657.A1 (AL4 / A20SA 118/37 - 15,0)
Tension:	11,3 MPa (10°C)
At the request of:	EDWIN s.r.o.
RIBE order number	
Internal request:	2024_088

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1. Vibration damper types

- Damper type 1 B853002A03 (consisting of damper B853002 and attachment rods TW185043)
- Damper type 2 B161003A04 (consisting of damper B161003 and attachment rods TW280062)

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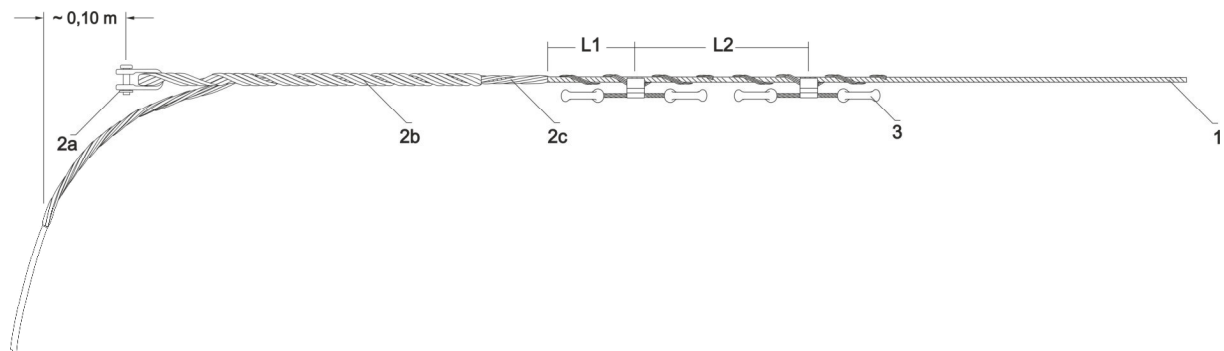
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2. Damper placement recommendation at tension tower



L1 = 0,5 m

L2 = 0,6 m

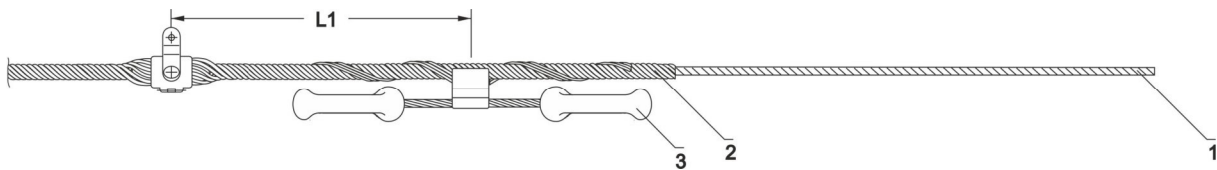
Not to scale

Tolerance for placement of dampers $\pm 0,01$ m

1	OPGW	KZL – ASLH-D(S)bb 2 x 48 SMF G.657.A1 (AL4 / A20SA 118/37 - 15,0)
2	Dead end consisting of	
2a	Thimble	F02686A02
2b	Helical dead end	AW37152
2c	Protection rods	RW176200lis
3	Vibration damper ID	B853002A03 (consisting of damper B853002 and attachment rods TW185043)

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3. Damper placement recommendation at suspension clamps



L1 = 0,6 m

Not to scale


Tolerance for placement of dampers $\pm 0,01$ m

1	OPGW	KZL – ASLH-D(S)bb 2 x 48 SMF G.657.A1 (AL4 / A20SA 118/37 - 15,0)
2	Suspension clamp consisting of clamping unit armour rods	Armour grip suspension unit LTA172200.Li.S19 B801051-51A01 KA172200LIS
3	Vibration damper ID	B161003A04 (consisting of damper B161003 and attachment rods TW280062)


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Tension:	11,3 MPa (10°C)

4. Maximum span lengths protected


Spans between tension clamps (T - T)

Span type	span length m	Damper type at span end	Diagram (not to scale)	Damper type at span end
TT – TT	≤ 49	-		-

Spans between suspension and tension clamps (S - T)

Span type	span length m	Damper type at span end	Diagram (not to scale)	Damper type at span end
ST - TT	≤ 49	-		-

Spans between suspension clamps (S - S)

Span type	span length m	Damper type at span end	Diagram (not to scale)	Damper type at span end
ST - ST	≤ 49	-		-

Symbols:

 tension clamp (T),  suspension clamp (S),  vibration damper

Damper type 1 B853002A03

Damper type 2 B161003A04

Project:	2x110 kV Nr.: V5541_5542, Husovice-BNT
Conductor / earth wire / OPGW	OPGW
Designation:	KZL – ASLH-D(S)bb 2 x 48 SMF G.657.A1 (AL4 / A20SA 118/37 - 15,0)
Tension:	36,8 MPa (10°C)

5. Line and tension data

The vibration analysis based on data from the following documents provided by the purchaser:

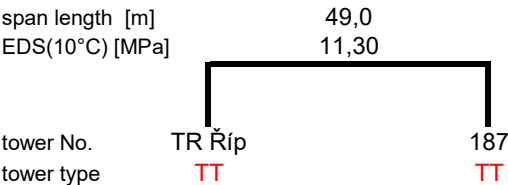
Document:	Data:
D. SO 01: Vedení 110 kV venkovní	Type of conductor, span length
KZL – ASLH-D(S)bb 2 x 48 SMF G.657.A1 (AL4 / A20SA 118/37 - 15,0)	Cable Diameter, weight, cross section surface

Damper distribution chart and quantities

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OPGW: 1 x KZL – ASLH-D(S)bb 2 x 48 SMF G.657.A1 (Ø17,1)



× ×
0 0

TT = tension tower
ST = suspension tower

× = damper
× = damper on armour rods

total (1 x): 0 x B853002A03 (×)
0 x B161003A04 (×)

Σ 0 0

Information:

The installation instruction applies only to the line and dampers indicated above.