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|--------------------------------------|-------------------------------------------|
| Project: | V516/5525, OPGW: TR Řípov – st.č. 4 |
| Conductor / earth wire / OPGW | OPGW |
| Designation: | 2S 2 / 24 (M167 / R91 – 228) - Ø 17,70 mm |
| Tension: | ≤ 29,0MPa |
| At the request of: | EGEM s.r.o. |
| Date: | 16.04.2024 |
| Internal request: | 2024_090 |

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1. Vibration damper types

- Damper type 1 B853002A03 (consisting of damper B853002 and attachment rods TW184043)
- Damper type 2 B161003A05 (consisting of damper B161003 and attachment rods TW310062)

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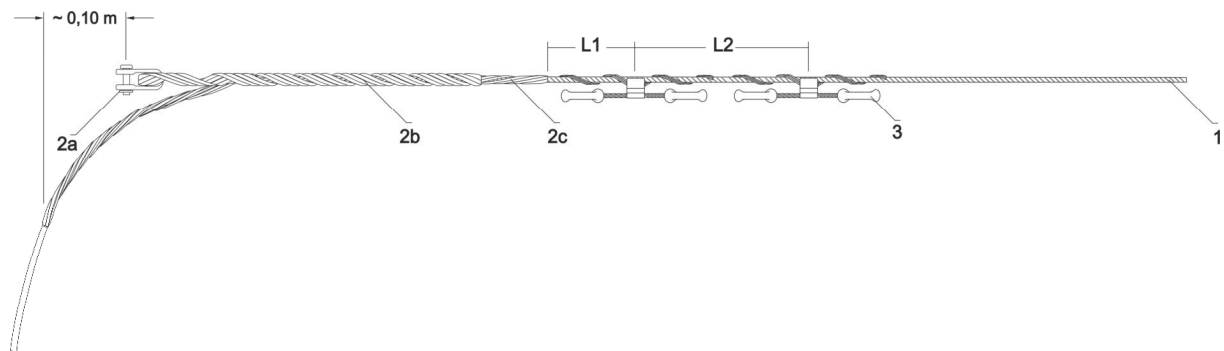
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| Tension: | ≤ 29,0MPa |

2. Damper placement recommendation at tension tower



L1 = 0,5 m

L2 = 0,6 m

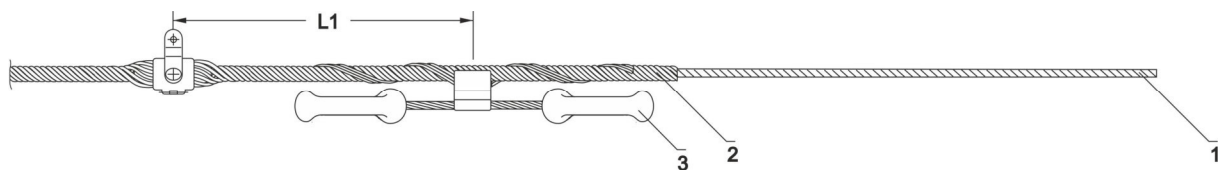
Not to scale

Tolerance for placement of dampers ±0,01 m

| | | |
|----|---------------------|------------------------------------------------------------------------|
| 1 | OPGW | 2S 2 / 24 (M167 / R91 – 228) - Ø 17,70 mm |
| 2 | Dead end | Consisting of |
| 2a | Thimble | F02686A02 |
| 2b | Dead end | AW252152 |
| 2c | Protection rod | RW193220lis |
| 3 | Vibration damper ID | B853002A03 (consisting of damper B853002 and attachment rods TW184043) |

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| Tension: | ≤ 29,0MPa |

3. Damper placement recommendation at suspension clamps



L1 = 0,6 m

Not to scale

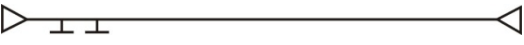

Tolerance for placement of dampers ±0,01 m

| | | |
|---|----------------------------------------------------------|-----------------------------------------------------------------------------|
| 1 | OPGW | 2S 2 / 24 (M167 / R91 – 228) - Ø 17,70 mm |
| 2 | Suspension clamp consisting of clamping unit armour rods | Armor grip suspension unit LTA179200.Li.S19 B801051-51A02 KA179200LIS |
| 3 | Vibration damper ID | B161003A05 (consisting of damper B161003 and attachment rods TW310062) |



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|--------------------------------------|-------------------------------------------|
| Project: | V504/549 OPGW: TR Řípov – st.č. 5 |
| Conductor / earth wire / OPGW | OPGW |
| Designation: | 2S 2 / 24 (M167 / R91 – 228) - Ø 17,70 mm |
| Tension: | ≤ 44,6MPa |

4. Maximum span lengths protected



Spans between tension clamps (TT - TT)

| Span type | span length m | Damper type at span end | Diagram (not to scale) | Damper type at span end |
|-----------|---------------|-------------------------|------------------------------------------------------------------------------------|-------------------------|
| TT – TT | ≤ 250 | 2 x type 1 |  | - |
| TT – TT | >250 – 259 | 2 x type 1 |  | 2 x type 1 |

Spans between suspension and tension clamps (ST - TT)

| Span type | span length m | Damper type at span end | Diagram (not to scale) | Damper type at span end |
|-----------|---------------|-------------------------|--------------------------------------------------------------------------------------|-------------------------|
| ST – TT | ≤ 250 | - |  | 2 x type 1 |
| ST - TT | >250 – 259 | 1 x type 2 |  | 2 x type 1 |

Spans between suspension clamps (ST - ST)

| Span type | span length m | Damper type at span end | Diagram (not to scale) | Damper type at span end |
|-----------|---------------|-------------------------|--------------------------------------------------------------------------------------|-------------------------|
| ST - ST | ≤ 250 | 1 x type 2 |  | - |
| ST - ST | >250 – 259 | 1 x type 2 |  | 1 x type 2 |

 tension clamp (TT),  suspension clamp (ST),  vibration damper

Damper type 1 B853002A03

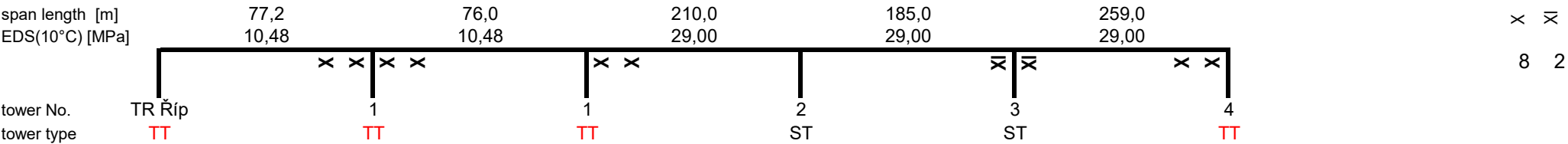
Damper type 2 B161003A05

Damper distribution chart and quantities

2024_090



Project: V516/5525, OPGW: TR Řípov – st.č. 4
OPGW: 1 x 2S 2 / 24 (M167 / R91 – 228) (Ø17,7)



TT = tension tower
ST = suspension tower

\times = damper
 \boxtimes = damper on armour rods

total (1 x): 8 x B853002A03 (\times)
2 x B161003A05 (\boxtimes)

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