

**TR Říčov - rek.R110kV, sek.tech., VS, PZTS**  
**Montážní tabulky pro FV**  
**V516/5525**

## Stringing Chart Report

Section #17 from structure #1 to structure #V5525N, start set #1 'PHF', end set #3 ''  
 Cable 'O:\PROLinCZPHA\22129\_TR Říčov-rek\_R110KV\PLS\lana\243\_all\_39\_stla-30°C', Ruling span (m) 75.4995  
 Sagging data: Catenary (m) 540, Horiz. Tension (N) 5233.68 Condition I Temperature (deg C) -5  
 Weather case for final after creep 80°C, Equivalent to 30.0 (deg C) temperature increase  
 Weather case for final after load 40°C, Equivalent to 0.1 (deg C) temperature increase  
 Results below for condition 'Initial FE'  
 Calculations done using actual span lengths and vertical projections

+ Span From	+ + Span To	+ Span	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Left	Span	
Str. Set Ph.	Str. Set Ph.	Length	Span Sag	Span Sag	Span Sag	Span Sag	Span Sag	Span Sag	Span Sag	Span Sag	Span Sag	Span Sag	Span Sag	Span Sag	Span Sag	Span Sag	Span Sag	Span Sag	Span Sag	Struct Number	Vertical Projection	
			-20 C	-15 C	-10 C	-5 C	0 C	5 C	10 C	15 C	20 C	25 C	30 C	35 C	40 C	45 C	50 C					
		(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)		(m)		
1	1	1V5525N	3	1	76.9	1.45	1.50	1.55	1.59	1.64	1.68	1.73	1.77	1.81	1.85	1.89	1.93	1.97	2.00	2.04	1	-14.76

+ Span From	+ + Span To	+ Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz
Str. Set Ph.	Str. Set Ph.	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension
		-20 C	-15 C	-10 C	-5 C	0 C	5 C	10 C	15 C	20 C	25 C	30 C	35 C	40 C	45 C	50 C			
		(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)			
1	1	1V5525N	3	1	5730	5547	5384	5229	5083	4950	4826	4711	4602	4500	4404	4318	4232	4151	4075

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## Stringing Chart Report

Section #20 from structure #1 to structure #V516N, start set #2 'LHF', end set #1 ''

Cable 'O:\PROLinCZPHA\22129\_TR Řířov-řek\_R110KV\PLS\lana\243\_all\_39\_stla-30°C', Ruling span (m) 74.7287

Sagging data: Catenary (m) 540, Horiz. Tension (N) 5233.68 Condition I Temperature (deg C) -5

Weather case for final after creep 80°C, Equivalent to 30.0 (deg C) temperature increase

Weather case for final after load 40°C, Equivalent to 0.1 (deg C) temperature increase

Results below for condition 'Initial FE'

Calculations done using actual span lengths and vertical projections

+ Span From + + Span To +			Span	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Left	Span			
Str.	Set	Ph.	Str.	Set	Ph.	Length	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Struct	Vertical			
							Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Number	Projection			
							-20 C	-15 C	-10 C	-5 C	0 C	5 C	10 C	15 C	20 C	25 C	30 C	35 C	40 C	45 C	50 C		
						(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)		
1	2	1	V516N	1	1	76.1	1.43	1.47	1.52	1.56	1.61	1.65	1.70	1.74	1.78	1.82	1.86	1.90	1.93	1.97	2.01	1	-14.76

+ Span From + + Span To +			Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz			
Str.	Set	Ph.	Str.	Set	Ph.	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension			
			-20 C	-15 C	-10 C	-5 C	0 C	5 C	10 C	15 C	20 C	25 C	30 C	35 C	40 C	45 C	50 C			
			(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)			
1	2	1	V516N	1	1	5742	5556	5391	5235	5082	4953	4828	4711	4602	4499	4402	4315	4229	4148	4070

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## Stringing Chart Report

Section #28 from structure #1 to structure #V5525N, start set #3 'PSF', end set #1 ''

Cable 'O:\PROLinCZPHA\22129\_TR Řípov-rek\_R110KV\PLS\lana\243\_all\_39\_st1a-30°C', Ruling span (m) 75.6415

Sagging data: Catenary (m) 540, Horiz. Tension (N) 5233.68 Condition I Temperature (deg C) -5

Weather case for final after creep 80°C, Equivalent to 30.0 (deg C) temperature increase

Weather case for final after load 40°C, Equivalent to 0.1 (deg C) temperature increase

Results below for condition 'Initial FE'

Calculations done using actual span lengths and vertical projections

+ Span From + + Span To +			Span	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Left	Span			
Str.	Set	Ph.	Str.	Set	Ph.	Length	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Struct	Vertical			
							Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Number	Projection			
							-20 C	-15 C	-10 C	-5 C	0 C	5 C	10 C	15 C	20 C	25 C	30 C	35 C	40 C	45 C	50 C		
						(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)		
1	3	1V5525N	1	1		76.4	1.43	1.47	1.52	1.56	1.61	1.65	1.69	1.73	1.77	1.81	1.85	1.89	1.92	1.96	1.99	1	-10.56

+ Span From	+ Span To	+ Span	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz
Str. Set Ph.	Str. Set Ph.		Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension
			-20 C	-15 C	-10 C	-5 C	0 C	5 C	10 C	15 C	20 C	25 C	30 C	35 C	40 C	45 C	50 C		
			(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)		
1	3	1V5525N	1	1	5731	5551	5390	5237	5089	4962	4839	4725	4617	4516	4420	4330	4250	4169	4093

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## Stringing Chart Report

Section #36 from structure #1 to structure #V516N, start set #4 'LSF', end set #3 ''

Cable 'O:\PROLinCZPHA\22129\_TR Řířov-řek\_R110KV\PLS\lana\243\_all\_39\_stla-30°C', Ruling span (m) 76.1074

Sagging data: Catenary (m) 540, Horiz. Tension (N) 5233.68 Condition I Temperature (deg C) -5

Weather case for final after creep 80°C, Equivalent to 30.0 (deg C) temperature increase

Weather case for final after load 40°C, Equivalent to 0.1 (deg C) temperature increase

Results below for condition 'Initial FE'

Calculations done using actual span lengths and vertical projections

+ Span From + + Span To +			Span	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Left	Span		
Str.	Set	Ph.	Str.	Set	Ph.	Length	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Struct	Vertical		
							Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Number	Projection		
							-20 C	-15 C	-10 C	-5 C	0 C	5 C	10 C	15 C	20 C	25 C	30 C	35 C	40 C	45 C	50 C		
						(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)		
1	4	1	V516N	3	1	76.8	1.45	1.49	1.54	1.58	1.63	1.67	1.71	1.75	1.79	1.83	1.87	1.90	1.94	1.98	2.01	1	-10.56

+ Span From	+ + Span To	+ +	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz
Str. Set Ph.	Str. Set Ph.		Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension
			-20 C	-15 C	-10 C	-5 C	0 C	5 C	10 C	15 C	20 C	25 C	30 C	35 C	40 C	45 C	50 C			
			(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)
1	4	1	V516N	3	1	5719	5540	5382	5230	5082	4957	4835	4721	4614	4514	4419	4333	4249	4169	4093

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## Stringing Chart Report

Section #39 from structure #1 to structure #V5525N, start set #5 'PDF', end set #2 ''

Cable 'O:\PROLinCZPHA\22129\_TR Řířov-řek\_R110KV\PLS\lana\243\_all\_39\_st1a-30°C', Ruling span (m) 76.217

Sagging data: Catenary (m) 540, Horiz. Tension (N) 5233.68 Condition I Temperature (deg C) -5

Weather case for final after creep 80°C, Equivalent to 30.0 (deg C) temperature increase

Weather case for final after load 40°C, Equivalent to 0.1 (deg C) temperature increase

Results below for condition 'Initial FE'

Calculations done using actual span lengths and vertical projections

+ Span From		+ Span To		+ Span		Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Left	Span
Str.	Set	Ph.	Str.	Set	Ph.	Length	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Struct	Vertical
							Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Number	Projection
						(m)	-20 C	-15 C	-10 C	-5 C	0 C	5 C	10 C	15 C	20 C	25 C	30 C	35 C	40 C	45 C	50 C
						(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
1	5	1V5525N	2	1		76.5	1.43	1.47	1.52	1.56	1.60	1.65	1.69	1.73	1.76	1.80	1.84	1.88	1.91	1.95	1.99
																				1	-6.36

+ Span From	+ Span To	+ Span	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz
Str. Set Ph.	Str. Set Ph.		Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension
			-20 C	-15 C	-10 C	-5 C	0 C	5 C	10 C	15 C	20 C	25 C	30 C	35 C	40 C	45 C	50 C		
			(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)		
1	5	1V5525N	2	1	5712	5536	5379	5229	5083	4959	4839	4726	4620	4520	4426	4337	4258	4178	4102

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## Stringing Chart Report

Section #47 from structure #1 to structure #V516N, start set #6 'LDF', end set #2 ''

Cable 'O:\PROLinCZPHA\22129\_TR Řířov-řek\_R110KV\PLS\lana\243\_all\_39\_stla-30°C', Ruling span (m) 76.2548

Sagging data: Catenary (m) 540, Horiz. Tension (N) 5233.68 Condition I Temperature (deg C) -5

Weather case for final after creep 80°C, Equivalent to 30.0 (deg C) temperature increase

Weather case for final after load 40°C, Equivalent to 0.1 (deg C) temperature increase

Results below for condition 'Initial FE'

Calculations done using actual span lengths and vertical projections

+ Span From + + Span To +			Span	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Left	Span			
Str.	Set	Ph.	Str.	Set	Ph.	Length	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Struct	Vertical			
							Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Number	Projection			
							-20 C	-15 C	-10 C	-5 C	0 C	5 C	10 C	15 C	20 C	25 C	30 C	35 C	40 C	45 C	50 C		
						(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)		
1	6	1	V516N	2	1	76.5	1.43	1.48	1.52	1.56	1.61	1.65	1.69	1.73	1.77	1.80	1.84	1.88	1.92	1.95	1.99	1	-6.36

+ Span From + + Span To +			Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz			
Str.	Set	Ph.	Str.	Set	Ph.	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension			
			-20 C	-15 C	-10 C	-5 C	0 C	5 C	10 C	15 C	20 C	25 C	30 C	35 C	40 C	45 C	50 C			
			(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)			
1	6	1	V516N	2	1	5712	5536	5379	5230	5084	4960	4839	4726	4620	4521	4427	4338	4258	4178	4103