

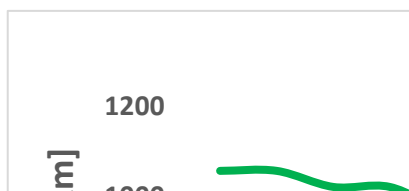
Úsek Častolovice – Kostelec nad Orlicí -

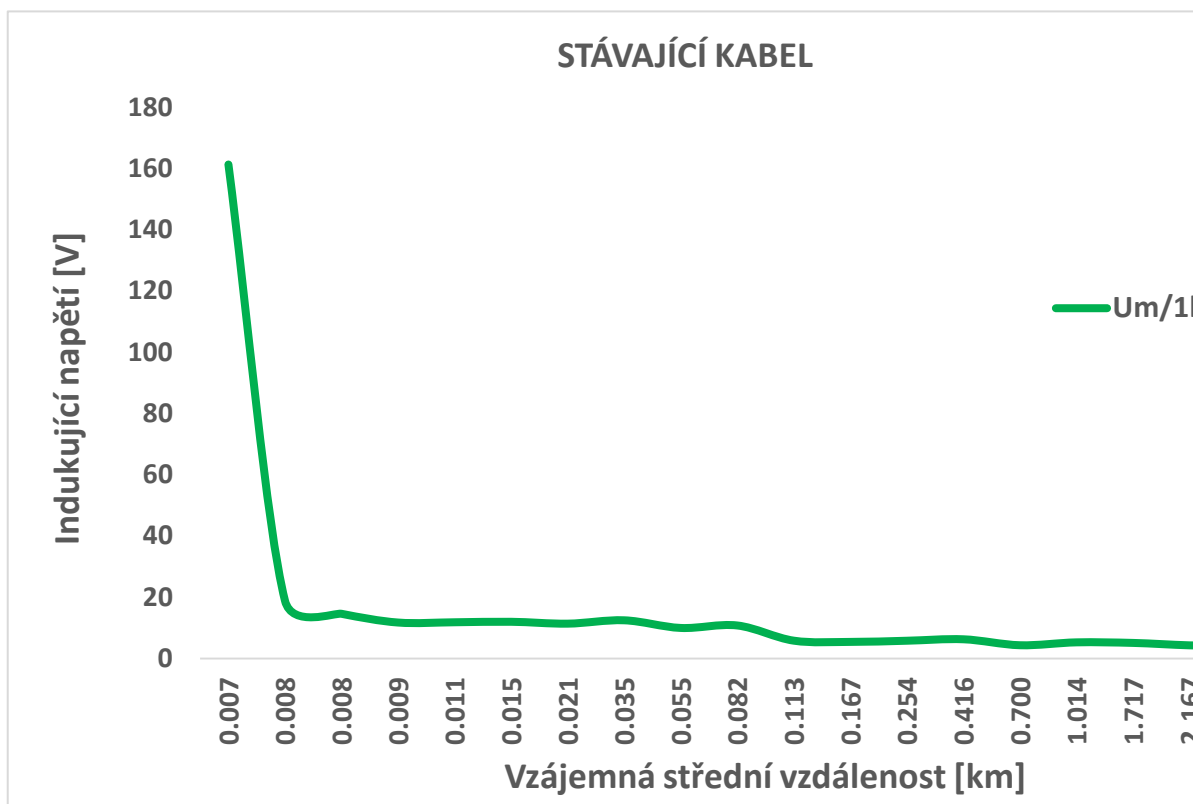
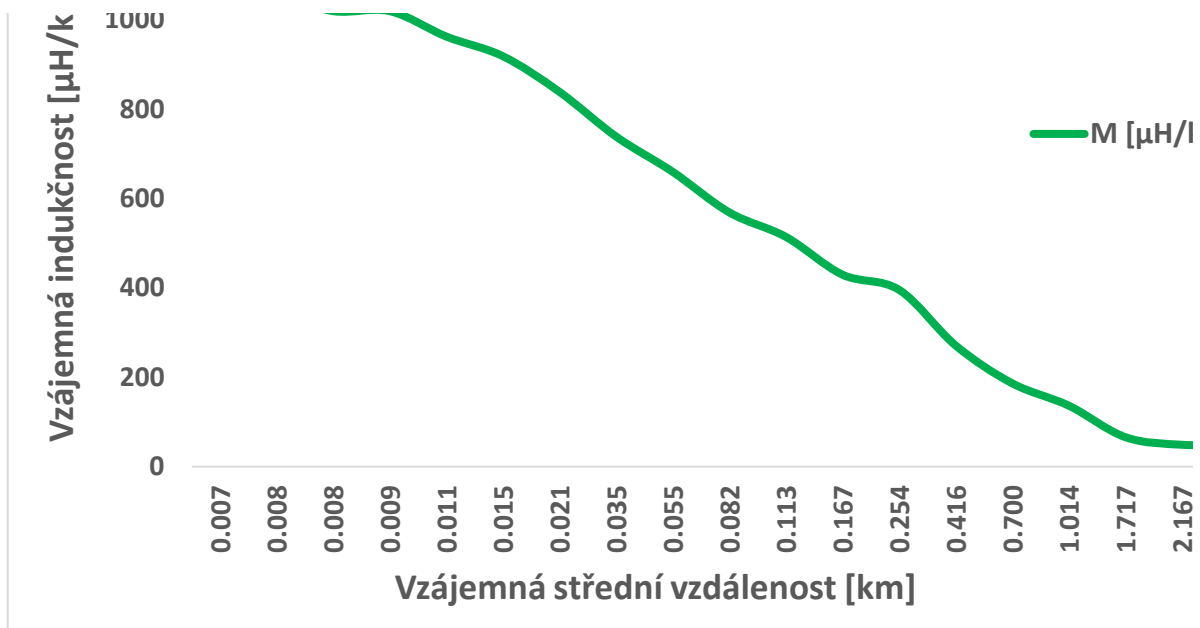
Uzly							
Počáteční	Koncový	a1 [km]	a2 [km]	a1+a2/2 [km]	L _{skut} [km]	x	M [μH/km]
A	A1	0.007	0.007	0.007	0.600	0.010159	1056
A1	B	0.007	0.008	0.008	0.070	0.010538	1056
B	B1	0.008	0.008	0.008	0.056	0.011349	1020
B1	B2	0.008	0.010	0.009	0.045	0.012747	1020
B2	C	0.010	0.013	0.011	0.048	0.015774	963
C	C1	0.013	0.017	0.015	0.051	0.020927	919
C1	C2	0.017	0.025	0.021	0.053	0.029864	839
C2	D	0.025	0.044	0.035	0.066	0.048544	739
D	D1	0.044	0.066	0.055	0.059	0.077211	660
D1	E	0.066	0.097	0.082	0.074	0.114512	569.2
E	E1	0.097	0.130	0.113	0.044	0.159418	514.4
E1	E2	0.130	0.203	0.167	0.049	0.234143	429.8
E2	F	0.203	0.305	0.254	0.057	0.357007	395.8
F	G	0.305	0.527	0.416	0.090	0.584567	271.1
G	H	0.527	0.873	0.700	0.090	0.983551	186.5
H	I	0.873	1.155	1.014	0.150	1.424549	136.4
I	N	1.155	2.279	1.717	0.300	2.412252	65.8
N	O	2.279	2.054	2.167	0.340	3.043948	48.9
O	P	2.054	2.225	2.140	0.310	3.006013	48.9
P	Q	2.225	2.404	2.315	0.320	3.251887	36.9

Kabel

1000	Přepočet	m	
0.9	r _{kab}		TCKE stávající kabel
0.9	r _k		redukční činitel stávající koleje
0.6	r _{kn}		redukční činitel navrhované koleje
1	r _p		
1000	I _m	A	mimořádný proud
314	ω	rad.s	
2.8	L _c	km	
0.3	tvyp	s	
1000	I _z	A	zkratový proud
0.4	r _{kabn}		TCKPFLEZE výhledový vedlejší trať
0.1	r _{kabn}		TCKPFLEZE výhledový podél trati

STÁVAJÍCÍ KABEL





stávající kabel

r_{celk}	$U_m/1kA [V]$	$U_z/1kA [V]$	Podmínka a_1/a_2
0.81	161.2316	161.2316	0.96
0.81	18.8103	18.8103	0.95
0.81	14.5353	14.5353	0.92
0.81	11.6801	11.6801	0.87
0.81	11.7626	11.7626	0.76
0.81	11.9267	11.9267	0.75
0.81	11.3155	11.3155	0.67
0.81	12.4115	12.4115	0.58
0.81	9.9090	9.9090	0.66
0.81	10.7184	10.7184	0.68
0.81	5.7595	5.7595	0.74
0.81	5.3592	5.3592	0.64
0.81	5.7410	5.7410	0.67
0.81	6.2088	6.2088	0.58
0.81	4.2713	4.2713	0.60
0.81	5.2064	5.2064	0.76
0.81	5.0232	5.0232	0.51
0.81	4.2308	4.2308	1.11
0.81	3.8575	3.8575	0.92
0.81	3.0048	3.0048	0.93
Celkem	316.10	316.10	

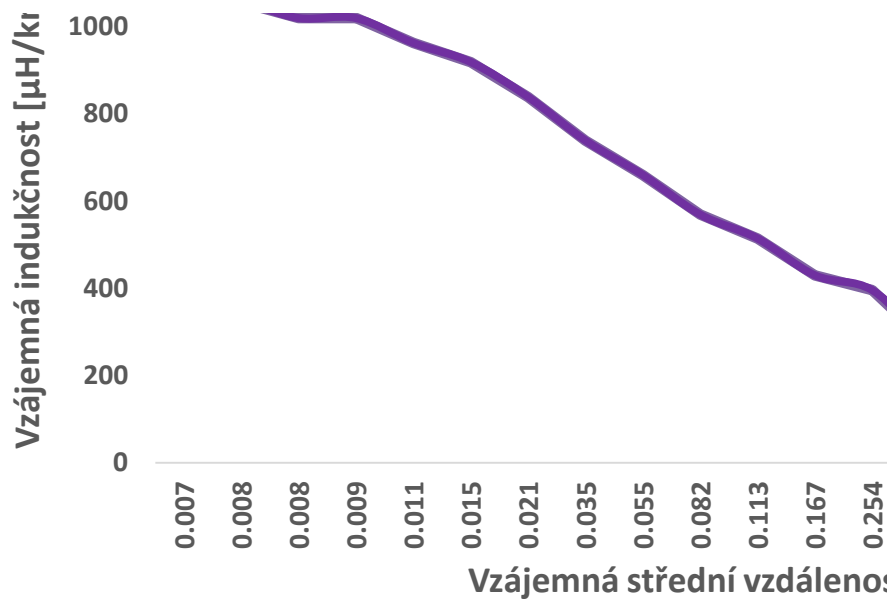
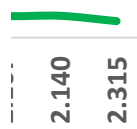
NAVRHOVANÝ KABEL

1200

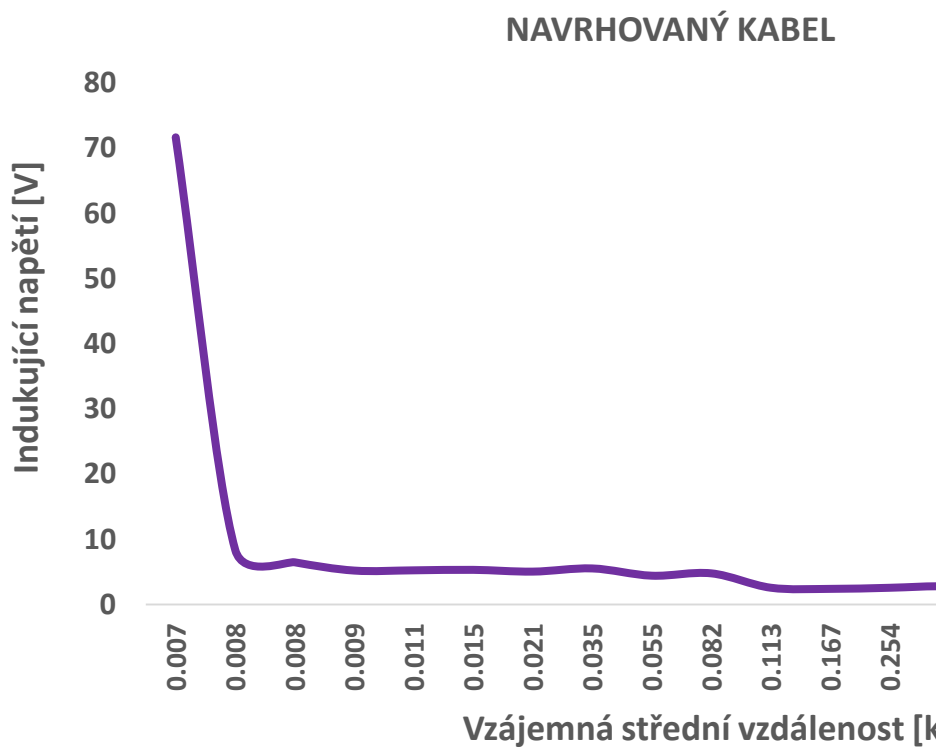
m]



km]



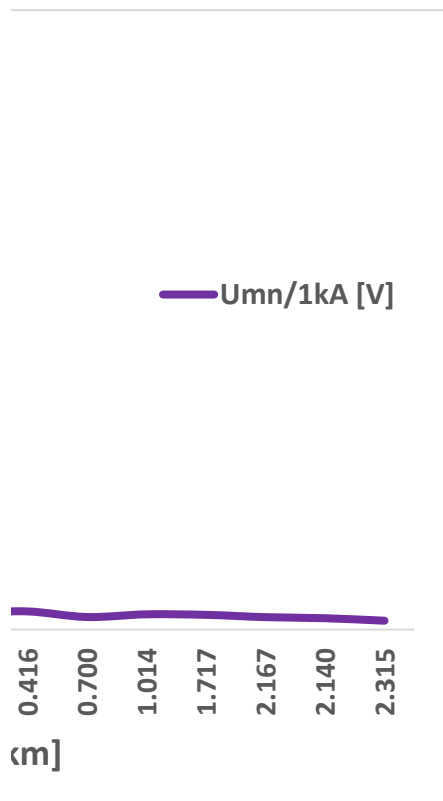
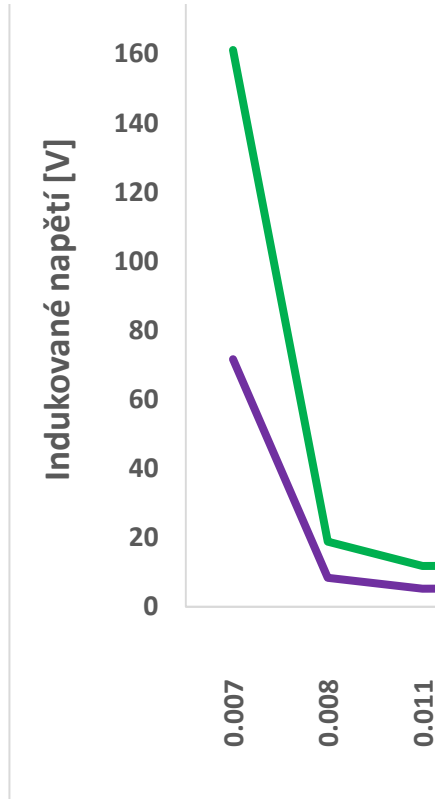
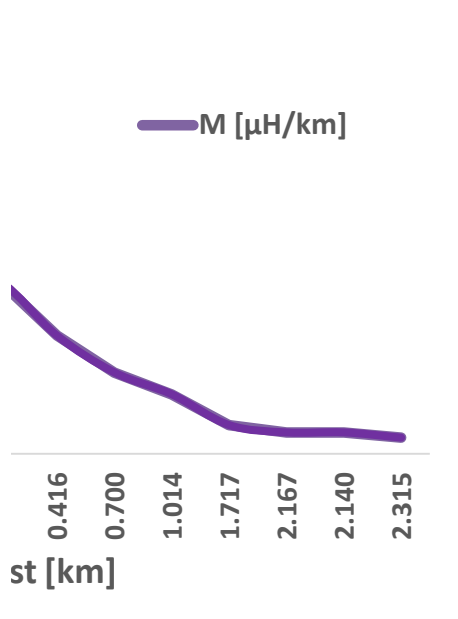
kA [V]



Úsek Častolovice – Kostelec nad

Uzly						
Počáteční	Koncový	a ₁ [km]	a ₂ [km]	a ₁ +a ₂ /2 [km]	L _{skut} [km]	x
A	A1	0.007	0.007	0.007	0.600	0.010159
A1	B	0.007	0.008	0.008	0.070	0.010538
B	B1	0.008	0.008	0.008	0.056	0.011349
B1	B2	0.008	0.010	0.009	0.045	0.012747
B2	C	0.010	0.013	0.011	0.048	0.015774
C	C1	0.013	0.017	0.015	0.051	0.020927
C1	C2	0.017	0.025	0.021	0.053	0.029864
C2	D	0.025	0.044	0.035	0.066	0.048544
D	D1	0.044	0.066	0.055	0.059	0.077211
D1	E	0.066	0.097	0.082	0.074	0.114512
E	E1	0.097	0.130	0.113	0.044	0.159418
E1	E2	0.130	0.203	0.167	0.049	0.234143
E2	F	0.203	0.305	0.254	0.057	0.357007
F	G	0.305	0.527	0.416	0.090	0.584567
G	H	0.527	0.873	0.700	0.090	0.983551
H	I	0.873	1.155	1.014	0.150	1.424549
I	N	1.155	2.279	1.717	0.300	2.412252
N	O	2.279	2.054	2.167	0.340	3.043948
O	P	2.054	2.225	2.140	0.310	3.006013
P	Q	2.225	2.404	2.315	0.320	3.251887

VZÁJEMNÉ F



Orlicí - navrhovaný kabel

M [$\mu\text{H}/\text{km}$]	r_{celk}	$U_{m1}/1\text{kA}$ [V]	$U_{z1}/1\text{kA}$ [V]	Podmínka a_1/a_2
1056	0.36	71.6585	71.6585	0.96
1056	0.36	8.3602	8.3602	0.95
1020	0.36	6.4601	6.4601	0.92
1020	0.36	5.1912	5.1912	0.87
963	0.36	5.2278	5.2278	0.76
919	0.36	5.3008	5.3008	0.75
839	0.36	5.0291	5.0291	0.67
739	0.36	5.5162	5.5162	0.58
660	0.36	4.4040	4.4040	0.66
569.2	0.36	4.7638	4.7638	0.68
514.4	0.36	2.5598	2.5598	0.74
429.8	0.36	2.3819	2.3819	0.64
395.8	0.36	2.5515	2.5515	0.67
271.1	0.36	2.7595	2.7595	0.58
186.5	0.36	1.8983	1.8983	0.60
136.4	0.36	2.3140	2.3140	0.76
65.8	0.36	2.2325	2.2325	0.51
48.9	0.36	1.8804	1.8804	1.11
48.9	0.36	1.7144	1.7144	0.92
36.9	0.36	1.3355	1.3355	0.93
	Celkem	140.49	140.49	

POROVNÁNÍ INDUKOVANÉHO NAPĚTÍ PŘI MIMOŘÁDNÉM STAVU PRO STÁVAJÍCÍ A NAVRHOVANÝ KABEL

— U_{m_j}
— U_{m_i}



/1kA [V]
n/1kA [V]



2.140

2.315

Úsek Kostelec nad Orlicí – Doudleby nad Orlicí - stá

Uzly								
Počáteční	Koncový	a ₁ [km]	a ₂ [km]	a ₁ +a ₂ /2 [km]	L _{skut} [km]	x	M [μH/km]	r _{celk}
Q1	Q2	2.789	3.175	2.982	0.200	4.189721	28.2	0.81
Q2	Q3	3.175	3.450	3.313	0.122	4.654073	22	0.81
Q3	T	3.450	4.230	3.840	1.800	5.395209	14	0.81
T	T1	4.230	4.190	4.210	0.489	5.915058	11.5	0.81
T1	T2	4.190	4.226	4.208	0.136	5.912248	11.5	0.81
								Celkem

ivající kabel		
Um/1kA [V]	Uz/1kA [V]	Podmínka a ₁ /a ₂
1.4352	1.4352	0.88
0.6830	0.6830	0.92
6.4126	6.4126	0.82
1.4310	1.4310	1.01
0.3980	0.3980	0.99
10.36	10.36	

Uzly	
Počáteční	Koncový
Q1	Q2
Q2	Q3
Q3	T
T	T1
T1	T2

Úsek Kostelec nad Orlicí – Doudleby nad Orlicí - navrhovaný kal

a ₁ [km]	a ₂ [km]	a ₁ +a ₂ /2 [km]	L _{skut} [km]	x	M [μH/km]	r _{celk}	U _{mn} /1kA [V]
2.789	3.175	2.982	0.200	4.189721	28.2	0.36	0.6379
3.175	3.450	3.313	0.122	4.654073	22	0.36	0.3036
3.450	4.230	3.840	1.800	5.395209	14	0.36	2.8501
4.230	4.190	4.210	0.489	5.915058	11.5	0.36	0.6360
4.190	4.226	4.208	0.136	5.912248	11.5	0.36	0.1769
Celkem							4.60

bel

U _{zn} /1kA [V]	Podmínka a ₁ /a ₂
0.6379	0.88
0.3036	0.92
2.8501	0.82
0.6360	1.01
0.1769	0.99
4.60	

Ú:

Uzly			
Počáteční	Koncový	a ₁ [km]	a ₂ [km]
J	K	6.124	6.129
K	L	6.129	6.400
L	M	6.400	6.243
M	R	6.243	4.809
R	S	4.809	4.983
S	U	4.983	3.827
U	Y	3.827	4.685
Y	Z	4.685	5.065

sek Doudleby nad Orlicí – Va

$a_1+a_2/2$ [km]	L_{skut} [km]	x
6.127	0.051	8.607738
6.265	0.080	8.801628
6.322	0.107	8.881713
5.526	2.681	7.764036
4.896	0.812	6.878887
4.405	1.255	6.189033
4.256	0.896	5.979688
4.875	0.086	6.849382

mberk - stávající kabel

M [$\mu\text{H}/\text{km}$]	r_{celk}	Um/1kA [V]
4.9	0.81	0.0636
4.9	0.81	0.0998
4.9	0.81	0.1334
6.2	0.81	4.2298
8.2	0.81	1.6944
11.5	0.81	3.6726
11.5	0.81	2.6220
8.2	0.81	0.1795
	Celkem	12.40

U_z/1kA [V]	Podmínka a₁/a₂
0.0636	1.00
0.0998	0.96
0.1334	1.03
4.2298	1.30
1.6944	0.97
3.6726	1.30
2.6220	0.82
0.1795	0.92
12.40	

Uzly		
Počáteční	Koncový	a ₁ [km]
J	K	6.124
K	L	6.129
L	M	6.400
M	R	6.243
R	S	4.809
S	U	4.983
U	Y	3.827
Y	Z	4.685

Úsek Doudleby nad Orlí

a_2 [km]	$a_1+a_2/2$ [km]	L_{skut} [km]
6.129	6.127	0.051
6.400	6.265	0.080
6.243	6.322	0.107
4.809	5.526	2.681
4.983	4.896	0.812
3.827	4.405	1.255
4.685	4.256	0.896
5.065	4.875	0.086

licí – Vamberk - navrhov

x	M [$\mu\text{H}/\text{km}$]	r_{celk}
8.607738	4.9	0.36
8.801628	4.9	0.36
8.881713	4.9	0.36
7.764036	6.2	0.36
6.878887	8.2	0.36
6.189033	11.5	0.36
5.979688	11.5	0.36
6.849382	8.2	0.36
		Celkem

aný kabel

$U_{m_n}/1kA [V]$	$U_{z_n}/1kA [V]$
0.0283	0.0283
0.0443	0.0443
0.0593	0.0593
1.8799	1.8799
0.7530	0.7530
1.6323	1.6323
1.1654	1.1654
0.0798	0.0798
5.51	5.51

Podmínka a₁/a₂
1.00
0.96
1.03
1.30
0.97
1.30
0.82
0.92

Úsek Vamberk – Rokytnice v Orlických horách - stá

Uzly								
Počáteční	Koncový	a ₁ [km]	a ₂ [km]	a ₁ +a ₂ /2 [km]	L _{skut} [km]	x	M [μH/km]	r _{celk}
V	AA	3.649	4.057	3.853	0.256	5.413474	14	0.81
AA	BA	4.057	3.940	3.999	0.055	5.617901	14	0.81
BA	CA	3.940	5.808	4.874	0.065	6.847977	8.2	0.81
CA	DA	5.808	6.180	5.994	0.132	8.421576	4.9	0.81
DA	EA	6.180	6.741	6.461	0.148	9.077008	4.9	0.81
EA	FA	6.741	6.748	6.745	1.348	9.476027	4	0.81
FA	GA	6.748	5.651	6.200	0.384	8.710303	4.9	0.81
GA	HA	5.651	6.783	6.217	0.227	8.734890	4.9	0.81
HA	IA	6.783	6.759	6.771	0.289	9.513260	4	0.81
IA	KA	6.759	5.994	6.377	0.253	8.958988	4.9	0.81
KA	MA	5.994	6.626	6.310	0.126	8.865555	4.9	0.81
								Celkem

vající kabel

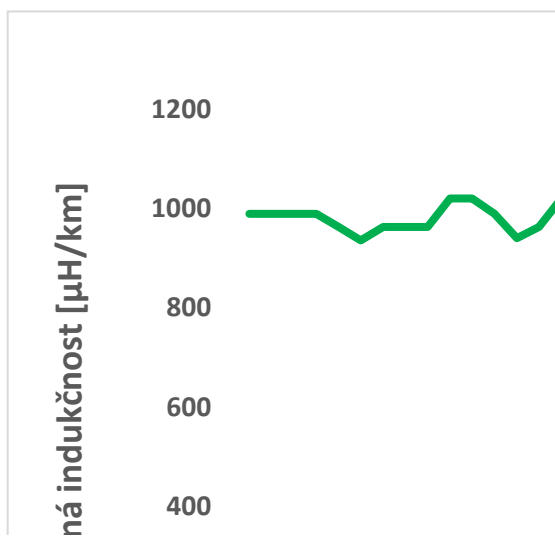
Um/1kA [V]	Uz/1kA [V]	Podmínka a₁/a₂
0.9120	0.9120	0.90
0.1959	0.1959	1.03
0.1356	0.1356	0.68
0.1646	0.1646	0.94
0.1845	0.1845	0.92
1.3721	1.3721	1.00
0.4788	0.4788	1.19
0.2830	0.2830	0.83
0.2942	0.2942	1.00
0.3155	0.3155	1.13
0.1571	0.1571	0.90
1.53	1.53	

Uzly		
Počáteční	Koncový	a₁ [km]
V	AA	3.649
AA	BA	4.057
BA	CA	3.940
CA	DA	5.808
DA	EA	6.180
EA	FA	6.741
FA	GA	6.748
GA	HA	5.651
HA	IA	6.783
IA	KA	6.759
KA	MA	5.994

Úsek Vamberk – Rokytnice v Orlických horách - navrhovaný kabel

a ₂ [km]	a ₁ +a ₂ /2 [km]	L _{skut} [km]	x	M [μH/km]	r _{celk}	U _m /1kA [V]	U _z /1kA [V]
4.057	3.853	0.256	5.413474	14	0.36	0.4053	0.4053
3.940	3.999	0.055	5.617901	14	0.36	0.0871	0.0871
5.808	4.874	0.065	6.847977	8.2	0.36	0.0603	0.0603
6.180	5.994	0.132	8.421576	4.9	0.36	0.0732	0.0732
6.741	6.461	0.148	9.077008	4.9	0.36	0.0820	0.0820
6.748	6.745	1.348	9.476027	4	0.36	0.6098	0.6098
5.651	6.200	0.384	8.710303	4.9	0.36	0.2128	0.2128
6.783	6.217	0.227	8.734890	4.9	0.36	0.1258	0.1258
6.759	6.771	0.289	9.513260	4	0.36	0.1307	0.1307
5.994	6.377	0.253	8.958988	4.9	0.36	0.1402	0.1402
6.626	6.310	0.126	8.865555	4.9	0.36	0.0698	0.0698
					Celkem	0.68	0.68

Podmínka a_1/a_2
0.90
1.03
0.68
0.94
0.92
1.00
1.19
0.83
1.00
1.13
0.90



Vzájemní

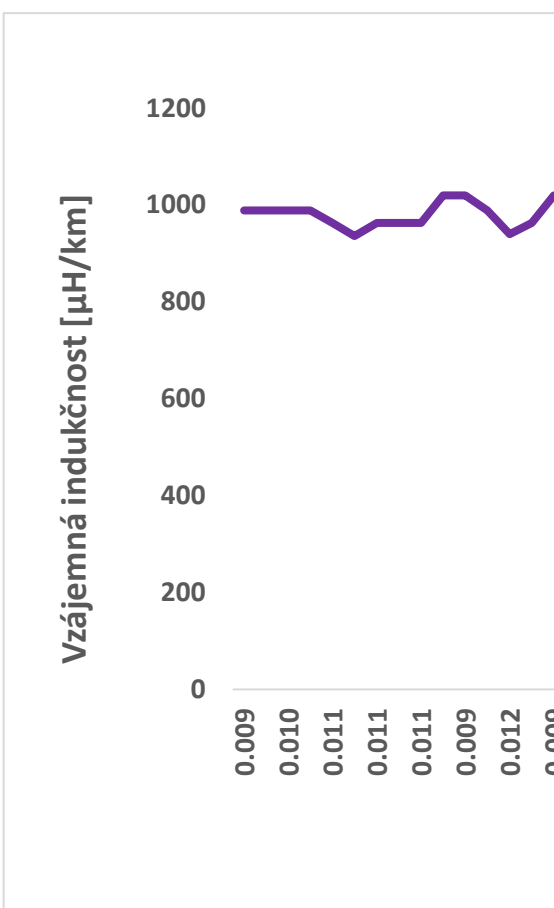
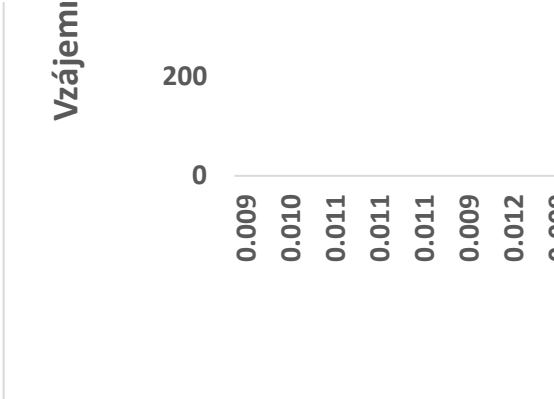
200
0

0.009
0.010
0.011
0.011
0.011
0.009
0.012
0.009

Vzájemná indukčnost [$\mu\text{H}/\text{km}$]

1200
1000
800
600
400
200
0

0.009
0.010
0.011
0.011
0.011
0.009
0.012
0.009



Úse

Uzly			
Počáteční	Koncový	a1 [km]	a2 [km]
A	AA	0.009	0.009
AA	AB	0.009	0.010
AB	AC	0.010	0.010
AC	AD	0.010	0.010
AD	AE	0.010	0.011
AE	AF	0.011	0.011
AF	AG	0.011	0.010
AG	AH	0.010	0.012
AH	AI	0.012	0.009
AI	B	0.009	0.009
B	BA	0.009	0.009
BA	BB	0.009	0.011
BB	BC	0.011	0.013
BC	BD	0.013	0.009
BD	BE	0.009	0.008
BE	BF	0.008	0.009
BF	BG	0.009	0.008
BG	BH	0.008	0.009
BH	BI	0.009	0.009
BI	C	0.009	0.008
C	CA	0.008	0.008
CA	CB	0.008	0.008
CB	CC	0.008	0.007
CC	CD	0.007	0.007
CD	CE	0.007	0.007
CE	CF	0.007	0.009
CF	CG	0.009	0.008
CG	CH	0.008	0.007
CH	CI	0.007	0.008
CI	D	0.008	0.008
D	DA	0.008	0.007
DA	DB	0.007	0.008
DB	DC	0.008	0.011
DC	DE	0.011	0.015
DE	DF	0.015	0.011
DF	DG	0.011	0.009
DG	DH	0.009	0.012
DH	DI	0.012	0.018
DI	E	0.018	0.012

E	EA	0.012	0.011
EA	EB	0.011	0.008
EB	EC	0.008	0.008
EC	ED	0.008	0.012
ED	EE	0.012	0.015
EE	EF	0.015	0.010
EF	EG	0.010	0.010
EG	EH	0.010	0.008
EH	EI	0.008	0.010
EI	F	0.010	0.008
F	FA	0.008	0.008
FA	FB	0.008	0.010
FB	FC	0.010	0.012
FC	FD	0.012	0.020
FD	FE	0.020	0.029
FE	FF	0.029	0.020
FF	FG	0.020	0.014
FG	FH	0.014	0.010
FH	FI	0.010	0.010
FI	G	0.010	0.009
G	GA	0.009	0.007
GA	GB	0.007	0.009
GB	GC	0.009	0.008
GC	GD	0.008	0.007

STÁVAJÍCÍ KABEL



0.009
0.009
0.009
0.008
0.008
0.007
0.009
0.008
0.008
0.010
0.013
0.011

Vzájemná střední vzdálenc

NAVRHOVANÝ KABI



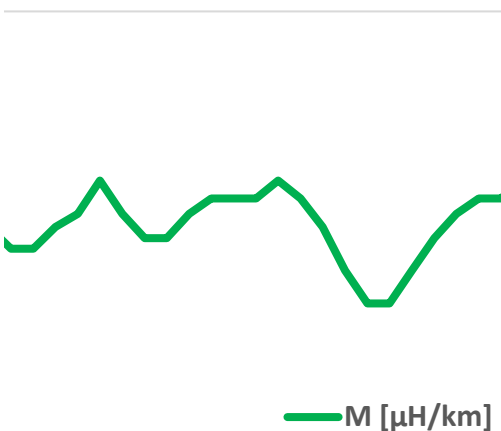
0.009
0.009
0.009
0.008
0.008
0.007
0.009
0.008
0.008
0.010
0.013
0.011

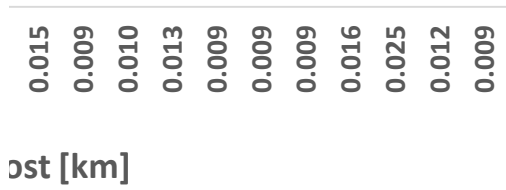
Vzájemná střední vzdálenc

k Častolovice – Rychnov nad

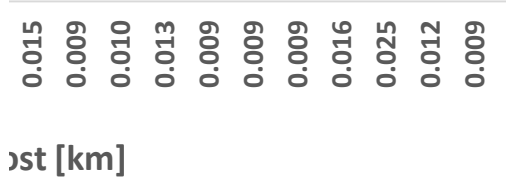
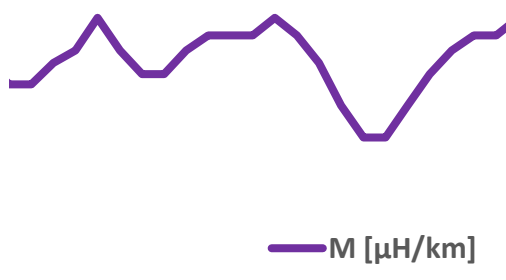
$a_1+a_2/2$ [km]	L_{skut} [km]	x
0.009	0.110	0.013078
0.010	0.093	0.013371
0.010	0.025	0.013558
0.010	0.039	0.014193
0.011	0.032	0.014984
0.011	0.026	0.015548
0.011	0.046	0.015024
0.011	0.124	0.015597
0.011	0.034	0.015119
0.009	0.140	0.012662
0.009	0.188	0.012026
0.010	0.113	0.014017
0.012	0.035	0.017498
0.011	0.018	0.015941
0.009	0.064	0.012366
0.009	0.070	0.012117
0.009	0.062	0.012014
0.009	0.085	0.012467
0.009	0.088	0.012724
0.008	0.036	0.011354
0.008	0.115	0.011218
0.008	0.026	0.011475
0.008	0.066	0.010778
0.007	0.109	0.010255
0.007	0.049	0.010266
0.008	0.055	0.011415
0.009	0.051	0.011971
0.008	0.014	0.010910
0.008	0.286	0.010625
0.008	0.130	0.011296
0.008	0.286	0.010926
0.008	0.693	0.010905
0.010	0.206	0.013559
0.013	0.062	0.018436
0.013	0.041	0.018436
0.010	0.077	0.014413
0.011	0.317	0.015073
0.015	0.127	0.021011
0.015	0.869	0.020844

0.011	0.425	0.015738
0.009	0.267	0.013219
0.008	0.532	0.011709
0.010	0.185	0.014268
0.013	0.056	0.018892
0.013	0.094	0.017578
0.010	0.187	0.013739
0.009	0.167	0.012397
0.009	0.012	0.012858
0.009	0.123	0.012879
0.008	0.183	0.011424
0.009	0.202	0.012515
0.011	0.020	0.015522
0.016	0.023	0.022674
0.025	0.039	0.034530
0.025	0.085	0.034490
0.017	0.017	0.024053
0.012	0.013	0.017082
0.010	0.078	0.013746
0.009	0.130	0.012854
0.008	0.253	0.011203
0.008	0.084	0.011224
0.008	0.020	0.011435
0.008	0.041	0.010546





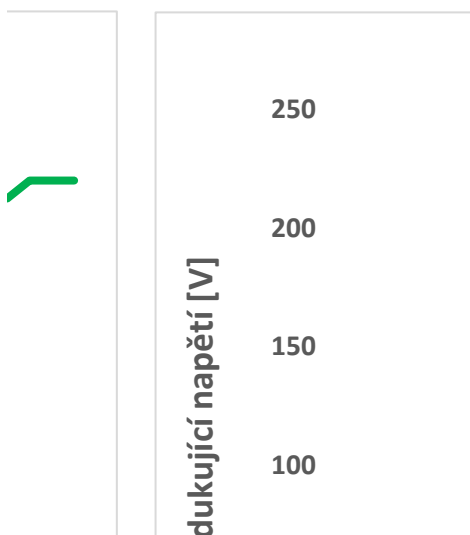
EL



Kněžnou - stávající kabel

M [μ H/km]	r_{celk}	Um/1kA [V]
989	0.81	27.6837
989	0.81	23.4053
989	0.81	6.2917
989	0.81	9.8151
963	0.81	7.8417
936	0.81	6.1928
963	0.81	11.2725
963	0.81	30.3867
963	0.81	8.3318
1020	0.81	36.3382
1020	0.81	48.7970
989	0.81	28.4387
940	0.81	8.3720
963	0.81	4.4110
1020	0.81	16.6117
1020	0.81	18.1691
1020	0.81	16.0615
1020	0.81	22.0625
1020	0.81	22.8411
809	0.81	7.4112
1056	0.81	30.9027
1056	0.81	6.9867
1056	0.81	17.7355
1056	0.81	29.2904
1056	0.81	13.1672
1056	0.81	14.7796
1020	0.81	13.2375
1056	0.81	3.7621
1056	0.81	76.8537
1056	0.81	34.9335
1056	0.81	76.8537
1056	0.81	186.2225
989	0.81	51.8440
940	0.81	14.8305
940	0.81	9.8072
940	0.81	18.4185
963	0.81	77.6820
919	0.81	29.6998
919	0.81	203.2217

963	0.81	104.1478
989	0.81	67.1958
1056	0.81	142.9587
989	0.81	46.5589
940	0.81	13.3952
940	0.81	22.4849
989	0.81	47.0623
1020	0.81	43.3463
1020	0.81	3.1147
1020	0.81	31.9257
1056	0.81	49.1756
1020	0.81	52.4308
963	0.81	4.9011
875	0.81	5.1212
809	0.81	8.0288
809	0.81	17.4986
875	0.81	3.7852
940	0.81	3.1096
989	0.81	19.6302
1020	0.81	33.7426
1020	0.81	65.6683
1056	0.81	22.5724
1056	0.81	5.3744
1056	0.81	11.0175
	Celkem	2095.21

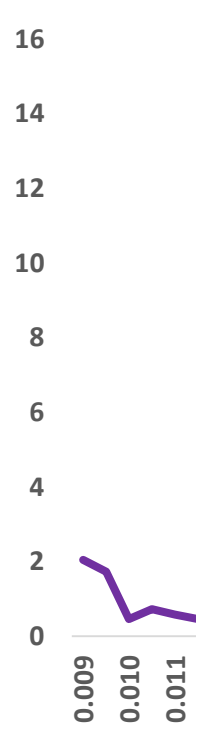


0.008
0.008

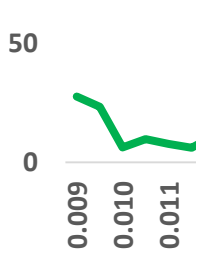


0.008
0.008

Indukující napětí [V]



In*i*

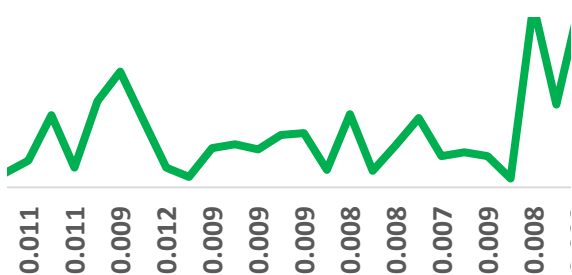


Uz/1kA [V]	Podmínka a₁/a₂
27.6837	0.965
23.4053	0.991
6.2917	0.982
9.8151	0.930
7.8417	0.964
6.1928	0.964
11.2725	1.114
30.3867	0.837
8.3318	1.280
36.3382	1.099
48.7970	1.006
28.4387	0.747
8.3720	0.847
4.4110	1.466
16.6117	1.096
18.1691	0.949
16.0615	1.072
22.0625	0.869
22.8411	1.101
7.4112	1.143
30.9027	0.895
6.9867	1.065
17.7355	1.064
29.2904	1.038
13.1672	0.962
14.7796	0.847
13.2375	1.068
3.7621	1.131
76.8537	0.930
34.9335	0.951
76.8537	1.127
186.2225	0.890
51.8440	0.741
14.8305	0.732
9.8072	1.367
18.4185	1.176
77.6820	0.784
29.6998	0.673
203.2217	1.517

104.1478	1.111
67.1958	1.293
142.9587	0.970
46.5589	0.714
13.3952	0.787
22.4849	1.508
47.0623	1.041
43.3463	1.188
3.1147	0.788
31.9257	1.265
49.1756	0.991
52.4308	0.847
4.9011	0.775
5.1212	0.628
8.0288	0.676
17.4986	1.483
3.7852	1.367
3.1096	1.469
19.6302	1.014
33.7426	1.132
65.6683	1.165
22.5724	0.856
5.3744	1.123
11.0175	1.044
2095.21	

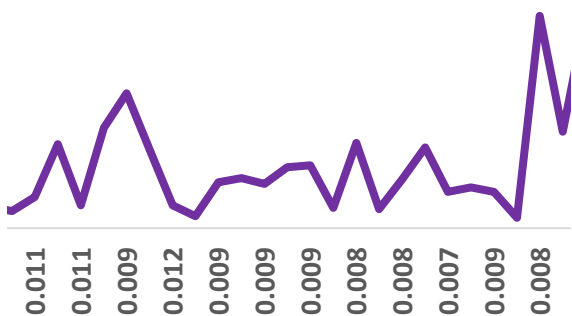
STÁVAJÍ





Vzájemná stře

NAVRH

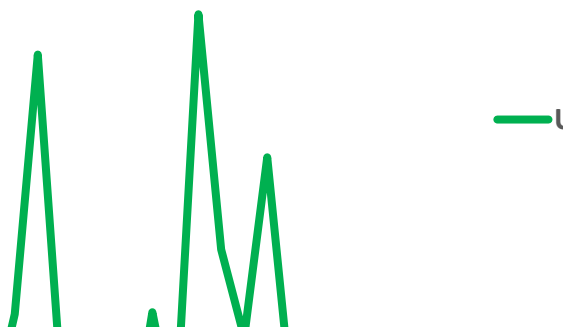


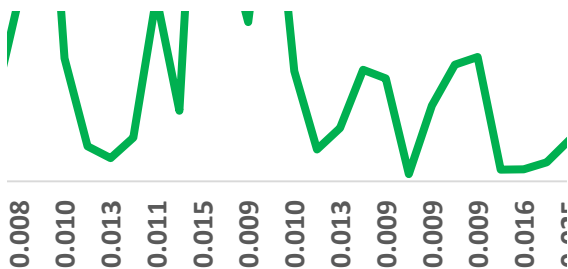
Vzájemná stře

Uzly	
Počáteční	Koncový
A	AA
AA	AB
AB	AC
AC	AD
AD	AE
AE	AF
AF	AG
AG	AH
AH	AI
AI	B
B	BA
BA	BB
BB	BC
BC	BD
BD	BE
BE	BF
BF	BG
BG	BH
BH	BI
BI	C
C	CA
CA	CB
CB	CC
CC	CD
CD	CE
CE	CF
CF	CG
CG	CH
CH	CI
CI	D
D	DA
DA	DB
DB	DC
DC	DE
DE	DF
DF	DG
DG	DH
DH	DI
DI	E

E	EA
EA	EB
EB	EC
EC	ED
ED	EE
EE	EF
EF	EG
EG	EH
EH	EI
EI	F
F	FA
FA	FB
FB	FC
FC	FD
FD	FE
FE	FF
FF	FG
FG	FH
FH	FI
FI	G
G	GA
GA	GB
GB	GC
GC	GD

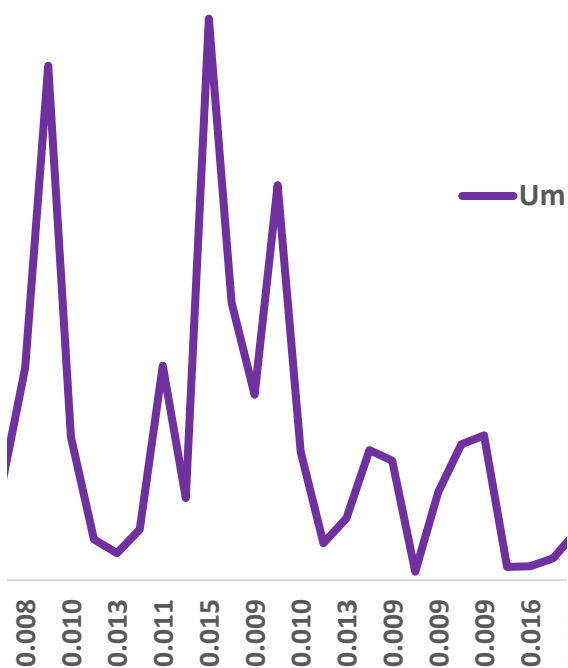
ÍCÍ KABEL





dní vzdálenost [km]

IOVANÝ KABEL

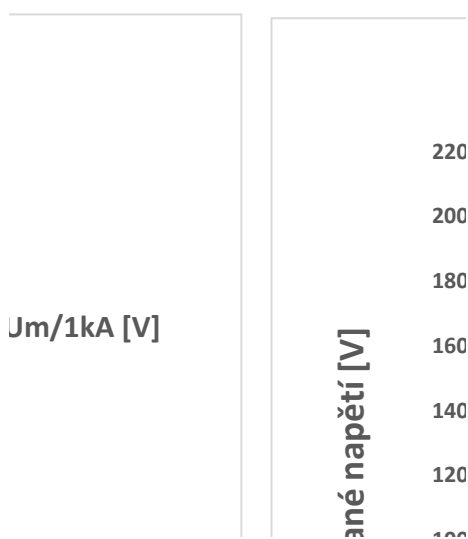


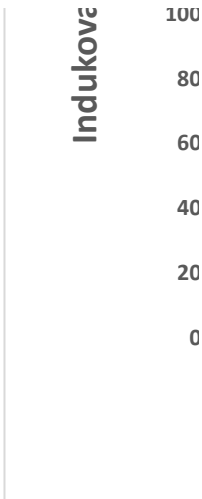
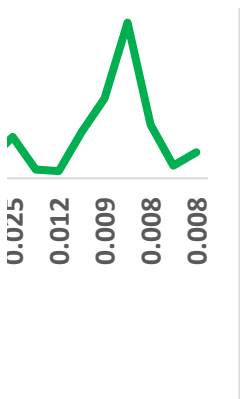
dní vzdálenost [km]

Úsek Častolovice

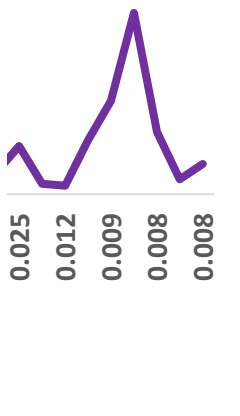
a₁ [km]	a₂ [km]	a₁+a₂/2 [km]
0.009	0.009	0.009
0.009	0.010	0.010
0.010	0.010	0.010
0.010	0.010	0.010
0.010	0.011	0.011
0.011	0.011	0.011
0.011	0.010	0.011
0.010	0.012	0.011
0.012	0.009	0.011
0.009	0.009	0.009
0.009	0.009	0.009
0.009	0.011	0.010
0.011	0.013	0.012
0.013	0.009	0.011
0.009	0.008	0.009
0.008	0.009	0.009
0.009	0.008	0.009
0.008	0.009	0.009
0.009	0.009	0.009
0.009	0.008	0.008
0.008	0.008	0.008
0.008	0.008	0.008
0.008	0.007	0.008
0.007	0.007	0.007
0.007	0.007	0.007
0.007	0.009	0.008
0.009	0.008	0.009
0.008	0.007	0.008
0.007	0.008	0.008
0.008	0.008	0.008
0.008	0.007	0.008
0.007	0.008	0.008
0.008	0.011	0.010
0.011	0.015	0.013
0.015	0.011	0.013
0.011	0.009	0.010
0.009	0.012	0.011
0.012	0.018	0.015
0.018	0.012	0.015

0.012	0.011	0.011
0.011	0.008	0.009
0.008	0.008	0.008
0.008	0.012	0.010
0.012	0.015	0.013
0.015	0.010	0.013
0.010	0.010	0.010
0.010	0.008	0.009
0.008	0.010	0.009
0.010	0.008	0.009
0.008	0.008	0.008
0.008	0.010	0.009
0.010	0.012	0.011
0.012	0.020	0.016
0.020	0.029	0.025
0.029	0.020	0.025
0.020	0.014	0.017
0.014	0.010	0.012
0.010	0.010	0.010
0.010	0.009	0.009
0.009	0.007	0.008
0.007	0.009	0.008
0.009	0.008	0.008
0.008	0.007	0.008





n/1kA [V]



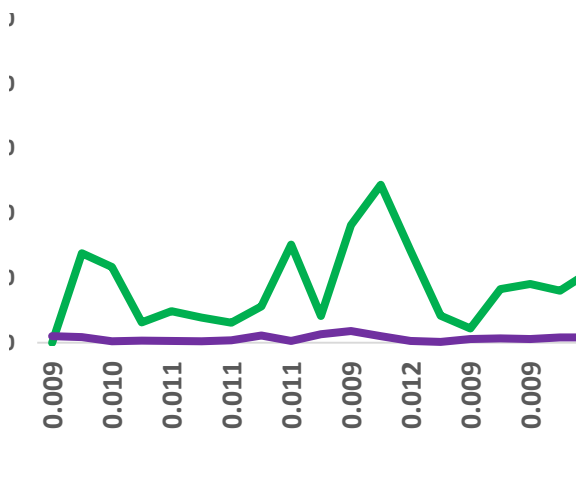
– Rychnov nad Kněžnou - návrh

Lskut [km]	x	M [μ H/km]	r _{celk}
0.110	0.013078	989	0.06
0.093	0.013371	989	0.06
0.025	0.013558	989	0.06
0.039	0.014193	989	0.06
0.032	0.014984	963	0.06
0.026	0.015548	936	0.06
0.046	0.015024	963	0.06
0.124	0.015597	963	0.06
0.034	0.015119	963	0.06
0.140	0.012662	1020	0.06
0.188	0.012026	1020	0.06
0.113	0.014017	989	0.06
0.035	0.017498	940	0.06
0.018	0.015941	963	0.06
0.064	0.012366	1020	0.06
0.070	0.012117	1020	0.06
0.062	0.012014	1020	0.06
0.085	0.012467	1020	0.06
0.088	0.012724	1020	0.06
0.036	0.011354	809	0.06
0.115	0.011218	1056	0.06
0.026	0.011475	1056	0.06
0.066	0.010778	1056	0.06
0.109	0.010255	1056	0.06
0.049	0.010266	1056	0.06
0.055	0.011415	1056	0.06
0.051	0.011971	1020	0.06
0.014	0.010910	1056	0.06
0.286	0.010625	1056	0.06
0.130	0.011296	1056	0.06
0.286	0.010926	1056	0.06
0.693	0.010905	1056	0.06
0.206	0.013559	989	0.06
0.062	0.018436	940	0.06
0.041	0.018436	940	0.06
0.077	0.014413	940	0.06
0.317	0.015073	963	0.06
0.127	0.021011	919	0.06
0.869	0.020844	919	0.06

0.410	0.015738	963	0.06
0.267	0.013219	989	0.06
0.532	0.011709	1056	0.06
0.185	0.014268	989	0.06
0.056	0.018892	940	0.06
0.094	0.017578	940	0.06
0.187	0.013739	989	0.06
0.167	0.012397	1020	0.06
0.012	0.012858	1020	0.06
0.123	0.012879	1020	0.06
0.183	0.011424	1056	0.06
0.202	0.012515	1020	0.06
0.020	0.015522	963	0.06
0.023	0.022674	875	0.06
0.039	0.034530	809	0.06
0.085	0.034490	809	0.06
0.017	0.024053	875	0.06
0.013	0.017082	940	0.06
0.078	0.013746	989	0.06
0.130	0.012854	1020	0.06
0.253	0.011203	1020	0.06
0.084	0.011224	1056	0.06
0.020	0.011435	1056	0.06
0.041	0.010546	1056	0.06
			Celkem

VZÁJEMNÉ POROVNÁNÍ

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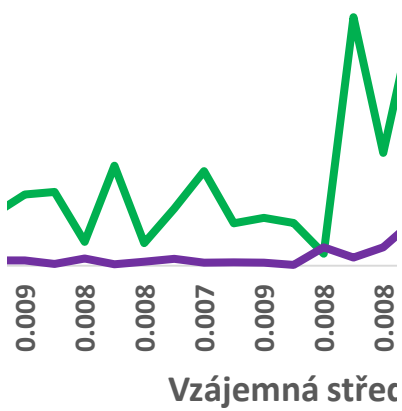


ovaný kabel

U_mn/1kA [V]	U_zn/1kA [V]
2.0506	2.0506
1.7337	1.7337
0.4661	0.4661
0.7270	0.7270
0.5809	0.5809
0.4587	0.4587
0.8350	0.8350
2.2509	2.2509
0.6172	0.6172
2.6917	2.6917
3.6146	3.6146
2.1066	2.1066
0.6202	0.6202
0.3267	0.3267
1.2305	1.2305
1.3459	1.3459
1.1897	1.1897
1.6343	1.6343
1.6919	1.6919
0.5490	0.5490
2.2891	2.2891
0.5175	0.5175
1.3137	1.3137
2.1697	2.1697
0.9754	0.9754
1.0948	1.0948
0.9806	0.9806
0.2787	0.2787
5.6929	5.6929
2.5877	2.5877
5.6929	5.6929
13.7943	13.7943
3.8403	3.8403
1.0986	1.0986
0.7265	0.7265
1.3643	1.3643
5.7542	5.7542
2.2000	2.2000
15.0535	15.0535

7.4424	7.4424
4.9775	4.9775
10.5895	10.5895
3.4488	3.4488
0.9922	0.9922
1.6655	1.6655
3.4861	3.4861
3.2108	3.2108
0.2307	0.2307
2.3649	2.3649
3.6426	3.6426
3.8838	3.8838
0.3630	0.3630
0.3793	0.3793
0.5947	0.5947
1.2962	1.2962
0.2804	0.2804
0.2303	0.2303
1.4541	1.4541
2.4995	2.4995
4.8643	4.8643
1.6720	1.6720
0.3981	0.3981
0.8161	0.8161
154.93	154.93

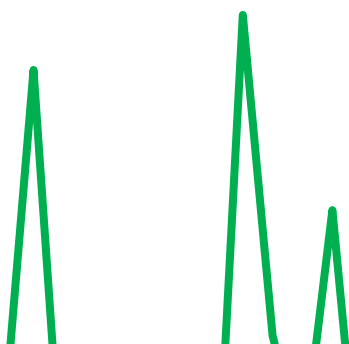
Í INDUKOVANÉHO NA
NAVRHO

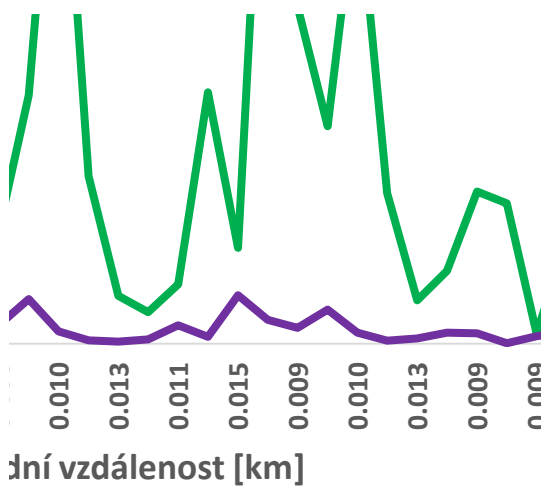


Podmínka a₁/a₂
0.965
0.991
0.982
0.930
0.964
0.964
1.114
0.837
1.280
1.099
1.006
0.747
0.847
1.466
1.096
0.949
1.072
0.869
1.101
1.143
0.895
1.065
1.064
1.038
0.962
0.847
1.068
1.131
0.930
0.951
1.127
0.890
0.741
0.732
1.367
1.176
0.784
0.673
1.517

1.111
1.293
0.970
0.714
0.787
1.508
1.041
1.188
0.788
1.265
0.991
0.847
0.775
0.628
0.676
1.483
1.367
1.469
1.014
1.132
1.165
0.856
1.123
1.044

PĚTÍ PŘI MIMOŘÁDNÉM STAVI VANÝ KABEL

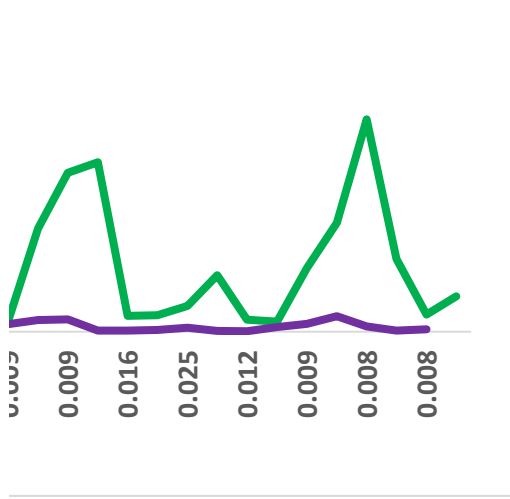




U PRO STÁVAJÍCÍ A

 $U_{m/1kA}$ [V]

 $U_{mn/1kA}$ [V]



Kabel na vedlejší trati

	Naměřené	Přepočítané
A	0.002	0.007
A1	0.003	0.007
B	0.003	0.008
B1	0.005	0.008
B2	0.007	0.010
C	0.011	0.013
C1	0.016	0.017
C2	0.025	0.025
D	0.043	0.044
D1	0.066	0.066
E	0.097	0.097
E1	0.130	0.130
E2	0.203	0.203
F	0.305	0.305
G	0.527	0.527
H	0.873	0.873
I	2.148	2.148
N	2.279	2.279
O	2.054	2.054
P	2.225	2.225
Q	2.404	2.404

Kabel podél trat

	Naměřené
A	0.006
AA	0.006
AB	0.007
AC	0.007
AD	0.008
AE	0.008
AF	0.009
AG	0.007
AH	0.010
AI	0.006
B	0.005
BA	0.005
BB	0.009
BC	0.012
BD	0.006
BE	0.005
BF	0.006
BG	0.005
BH	0.007
BI	0.005
C	0.003
CA	0.005
CB	0.004
CC	0.003
CD	0.002
CE	0.003
CF	0.005
CG	0.005
CH	0.002
CI	0.004
D	0.005
DA	0.002
DB	0.004
DC	0.009
DE	0.013
DF	0.009
DG	0.006
DH	0.010
DI	0.016
E	0.010
EA	0.008
EB	0.004
EC	0.005
ED	0.010
EE	0.013
EF	0.007
EG	0.007

EH	0.004
EI	0.008
F	0.004
FA	0.004
FB	0.007
FC	0.010
FD	0.019
FE	0.029
FF	0.019
FG	0.013
FH	0.007
FI	0.007
G	0.005
GA	0.003
GB	0.005
GC	0.003
GD	0.003



Přepočítané

0.009
0.009
0.010
0.010
0.010
0.011
0.011
0.010
0.012
0.009
0.009
0.009
0.011
0.013
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0.011
0.009
0.012
0.018
0.012
0.011
0.008
0.008
0.012
0.015
0.010
0.010

hloubka kabelu	0.0013	m
výška TV	0.0056	m

Kabel na vedlejší trati

Q1	2.789	2.789
Q2	3.175	3.175
Q3	3.45	3.450
T	4.23	4.230
T1	4.19	4.190
T2	4.226	4.226
J	6.124	6.124
K	6.129	6.129
L	6.4	6.400
M	6.243	6.243
R	4.809	4.809
S	4.983	4.983
U	3.827	3.827
Y	4.685	4.685
Z	5.065	5.065
V	3.649	3.649
AA	4.057	4.057
BA	3.94	3.940
CA	5.808	5.808
DA	6.18	6.180
EA	6.741	6.741
FA	6.748	6.748
GA	5.651	5.651
HA	6.783	6.783
IA	6.759	6.759
KA	5.994	5.994
MA	6.626	6.626

0.008
0.010
0.008
0.008
0.010
0.012
0.020
0.029
0.020
0.014
0.010
0.010
0.009
0.007
0.009
0.008
0.007