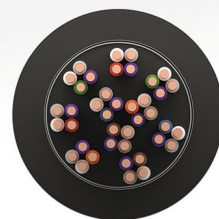
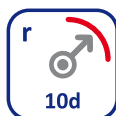
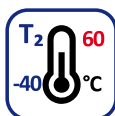
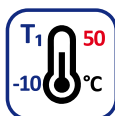


TCEPKPFLE



ZÁKLADNÉ VLASTNOSTI KÁBLA BASIC CHARACTERISTICS OF THE CABLE

ELEKTRICKÉ / ELECTRIC



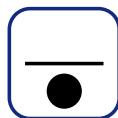
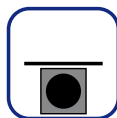
NORMY STANDARDS

TPEFK 03-01-2004/104+A2
STN EN 60708

KONŠTRUKCIA KÁBLA CONSTRUCTION OF THE CABLE

- Medený vodič
Copper conductor
- Izolácia z penového+plného polyetylénu (foam-skin)
Insulation layer from a foam + solid polyethylene (foam-skin)
- Vodoblokujúca vazelína
Water-protecting petroleum jelly
- Obvodová izolácia z nehydroscopickej fólie
Circuit insulation from no hydroscopic foils
- Tieniaca Al-polymérová fólia 150 µm
Screening aluminum-polymer foil 150 µm
- Polyetylénový plášť – čierny
Polyethylene sheath – black

POUŽITIE KÁBLA CABLE APPLICATION



Tienený kábel určený na prenos telekomunikačných a dátových signálov v exteriéri (UV stabilný), vhodný na uloženie do zeme v úložnom lôžku s priečnou a pozdĺžnou ochranou proti šíreniu vlhkosti (statický systém ochrany - vodoblokujúca vazelína).

Cable with screening for transmission of telecom and data signals in exteriors (UV resistant), suitable for placement in a ground bedding. It contains lateral and longitudinal protection against the spread of moisture (static protection system - water-blocking vaseline).



Ozna enie k blov – str. 136 – 137 / Cable labeling – page 136 – 137

Farebn  k dy – str. 138 – 143 / Color codes – page 138 – 143

Nomin ln  hr bky pl   ta, informat vne priemery a hmotnosti k blov.

Nominal thickness of the sheath, informative diameters and weight of cables.

p	� 0,4 mm			� 0,6 mm			� 0,8 mm		
	t [mm]	d [mm]	m [kg/km]	t [mm]	d [mm]	m [kg/km]	t [mm]	d [mm]	m [kg/km]
1x4	1,3	6,5	38	1,3	7,0	53	1,5	7,9	61
3x4	1,8	7,5	70	1,8	9,7	103	1,8	11,8	170
5x4	1,8	10,5	96	1,8	11,8	147	1,8	14,9	250
10x4	1,8	12,5	151	1,8	15,0	260	1,8	19,6	474
15x4	1,8	13,5	203	1,8	17,8	390	1,8	22,5	627
20x4	1,8	15,1	251	1,8	18,4	474	2,0	25,4	768
25x4	1,8	16,5	324	1,8	21,0	583	2,0	30,0	938
35x4	1,8	18,1	381	2,0	24,6	719	2,0	30,4	1 219
50x4	1,8	21,5	575	2,0	28,5	1 034	-	-	-

p – po et prvkov (number of components)

t – nomin lna hr bka pl   ta (nominal thickness of the sheath)

d – informat vny priemer k bla nad pl   tom (informative diameter of the cable over the sheath)

m – informat vna hmotnos  k bla (informative weight of the cable)

PRENOSOV  PARAMETRE / TRANSMISSION PARAMETERS

Priemer vodi�ov - Diameter of conductors		� 0,4 mm	� 0,6 mm	� 0,8 mm	
Max. odpor elektrickej slu�ky [Ω /km] – Max. loop resistance [Ω /km]		300	133,2	73,6	
Elektrick�y odpor vodi�a [Ω /km]	priemer - average	144	64	35	
Electrical resistance of the conductor [Ω /km]	jednotlivo - one	150	67	37	
Odporov� nerovnov�ha p�ru [%] / Resistance unbalance of a pair [%]		≤ 2	≤ 2	≤ 2	
Prev�dzkov� kapacita p�ru [nF/km]	max. stred - max. mid.	42 ¹⁾	42 ¹⁾	42 ¹⁾	
Mutual capacitance [nF/km]	jednotlivo - one	42 \pm 4	42 \pm 4	42 \pm 4	
Kapacitn� nerovnov�ha k_1 [pF/500m]	95% hodn�t - value	< 150	< 150	< 100	
Capacitance unbalance k_1 [pF/500m]	max. jedn. - max. one	250	250	160	
Kapacitn� nerovnov�ha k_{9-12} [pF/500m]	95% hodn�t - value	< 500	< 500	< 300	
Capacitance unbalance k_{9-12} [pF/500m]	max. jedn. - max. one	800	800	500	
Kapacitn� nerovnov�ha e_1-e_2 [pF/500m]	95% hodn�t - value	< 500	< 500	< 300	
Capacitance unbalance e_1-e_2 [pF/500m]	max. jedn. - max. one	800 ²⁾	800 ²⁾	500 ²⁾	
Maxim�ln� mern� tmenie [dB/km]	0,8 kHz	1,55	1,0	0,75	
Attenuation, max. [dB/km]	16 kHz	6,7	3,8	3,0	
	150 kHz	12,0	7,0	4,6	
	1 MHz	23,5	17,5	12,4	
	2 MHz	35,7	22,5	16,0	
Preslu�ov� tmenie na bl�zkom konci [dB/300m] Crosstalk at near-end [dB/300m]	80 kHz	100%	57	60	61
		90%	62	64	66
	150 kHz	100%	50	53	54
		90%	55	57	59
	1 MHz	100%	37	40	41
		90%	42	44	46
	2 MHz	100%	32	35	36
		90%	37	39	41

POZN MKA 1: Plat  len pre 10  tvoriek a viac. / NOTE 1: Valid only for 10 quads and more

POZN MKA 2: Pre kon trukciu 1x4 je maxim lna hodnota 1700 pF/500m.

NOTE 2: For the construction 1x4 is the maximum value 1700 pF/500m.