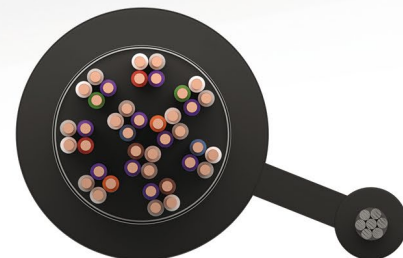
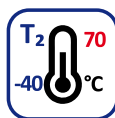
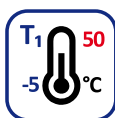


# QL

## ZÁKLADNÉ VLASTNOSTI KÁBLA BASIC CHARACTERISTICS OF THE CABLE

ELEKTRICKÉ / ELECTRIC



## NORMY STANDARDS

TPEFK 31-07-98/123+A1  
STN EN 60708

## KONŠTRUKCIA KÁBLA CONSTRUCTION OF THE CABLE

- Medený vodič  
*Copper conductor*
- Izolácia z plného alebo penového polyetylénu (foam-skin)  
*Insulation from solid polyethylene or a foam polyethylene layer (foam-skin)*
- Obvodová izolácia z nehydroskopických fólií  
*Circuit insulation from non-hygroscopic foils*
- Tieniaca Al-polymérová fólia 100 µm  
*Aluminum-polymer screening foil 100 µm*
- Polyetylénový plášť – čierny  
*Polyethylene sheath – black*
- Oceľové nosné lano  
*Steel bearing rope*

## POUŽITIE KÁBLA CABLE APPLICATION



Samonosný tienený kábel s oceľovým nosným lanom určený na prenos telekomunikačných a dátových signálov v exteriéri (UV stabilný). Farebné značenie kábla je určené pre maďarský trh.

*Self-supporting screened cable with a steel bearing rope designed for the transmission of telecom and data signals in exteriors (UV resistant). Color code of cores in accordance with hungarian standards.*



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, informativne priemery a hmotnosti k blov, nosn  lano.

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

p	� 0,4 mm				� 0,6 mm				� 0,8 mm			
	t [mm]	d [mm]	m [kg/km]	nl [mm]	t [mm]	d [mm]	m [kg/km]	nl [mm]	t [mm]	d [mm]	m [kg/km]	nl [mm]
1x4	1,2	6,0x13,8	71	1,9	1,2	6,3x14,4	74	1,9	1,2	7,7x16,0	106	1,9
3x4	1,6	9,5x20,8	138	3,0	1,6	9,2x19,6	158	3,0	1,6	10,5x21,5	196	3,0
5x4	1,6	10,0x20,0	153	3,0	1,6	10,6x20,0	226	4,2	1,6	12,6x24,7	286	4,2
10x4	1,6	10,5x21,5	197	3,0	1,8	13,8x25,0	307	4,2	1,8	16,8x27,5	432	4,2
15x4	1,8	12,8x23,7	230	3,0	1,8	15,0x26,5	385	4,2	1,8	18,8x31,0	600	5,0
25x4	1,8	14,8x27,5	347	4,2	1,8	18,2x30,0	521	4,2	2,0	22,5x36,0	829	5,0
50x4	1,8	19,4x30,5	518	4,2	-	-	-	-	-	-	-	-

p – po et prvkov (number of components)

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

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

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

nl – nosn  lano (bearing rope)

## PRENOSOV  PARAMETRE / TRANSMISSION PARAMETERS

Priemer vodi�ov - Diameter of conductors		�	�	�
		0,4 mm	0,6 mm	0,8 mm
Max.odpor elektrickej slu�ky [ $\Omega$ /km]	max. stred - max. mid.	288	127,8	70,6
Max. loop resistance, [ $\Omega$ /km]	max. jedn. - max. one	300	130	73,2
Prev�dzkov� kapacita p�ru [nF/km]	max. stred - max. mid.	43 $\pm$ 3	43 $\pm$ 3	43 $\pm$ 3
Mutual capacitance of a pair [nF/km]	max. jedn. - max. one	50 <sup>1)</sup>	50 <sup>1)</sup>	50 <sup>1)</sup>
Kapacitn� nerovnov�ha $k_1^{(3)}$ [pF/500m]	98% hodn�t - value	<400	<400	<400
Capacitance unbalance $k_1^{(3)}$ [pF/500m]	max. jedn. - max. one	800	800	800
Kapacitn� nerovnov�ha $k_{9-12}^{(3)}$ [pF/500m]	98% hodn�t - value	< 100	< 100	< 100
Capacitance unbalance $k_{9-12}^{(3)}$ [pF/500m]	max. jedn. - max. one	300	300	300
Kapacitn� nerovnov�ha $e_1-e_2^{(3)}$ [pF/500m]	max. jedn. - max. one	800 <sup>2)</sup>	800 <sup>2)</sup>	800 <sup>2)</sup>
Capacitance unbalance $e_1-e_2^{(3)}$ [pF/500m]				
Maxim�ln� mern� tlmenie [dB/km]	0,8 kHz	1,55	1	0,75
Attenuation, max [dB/km]	16 kHz	6,7	3,8	3
	150 kHz	12	7	4,6
	1 MHz	23,5	17,5	12,4
	2 MHz	35,7	22,5	16
Presluchov� tlmenie na bl�zkom konci [dB/300m]	80	100%	57	60
Crosstalk at near-end [dB/300m]	kHz	90%	62	64
	150	100%	50	53
	kHz	90%	55	57
	1	100%	37	40
	MHz	90%	42	44
	2	100%	32	35
	MHz	90%	37	39

POZN MKA 1: Plat  pre kon trukciu 1x4. / NOTE 1: Applies to 1x4 construction.

POZN MKA 2: Pre kon trukciu 1x4 je maxim lna hodnota 1330 pF/500m.

NOTE 2: For the construction 1x4 is the maximal value 1330 pF/500m.

POZN MKA 3: Hodnoty kapacitn ch nerovnov h nameran ch na in ch dl zkach (L) ako 500m sa vydedia koeficientom  $\sqrt{L/500}$ .

NOTE 3: The values of capacitance unbalance measured on lengths (L) other than 500m are divided with the coefficient  $\sqrt{L/500}$ .