

^ey \ukhd'bo lj_[h\Zgbc ^èy qbkluo
ihf_s_gbc

for high requirements, cleanliness-suited



ljbf_g_gb_
WdjZgbjh\ZgZ[c dkihevam\dkZq_kldhgijhevghp[h\h]h
dZ[_eyeyjbf_g_gkyukhd'bf_[h\ZgbyfdZ[_evglumdkbjm_fuo
p_iyobjbhkh[hy'_eumkeh\bywe_dljBq_Kdhtms_fky
h[hjm^h\Zg^b`msbokkykl_fZdb]Zl_èyjh[hhl_o_gb d_b(kluo
ihf_s_gbyo

Application
power and control cable for high requirements in drag chain applications, for motion drive systems and in the field of robotic technology in cleanrooms.

Hkh[_gghklb

- <g_rgyly[hehqdz[_dym^gh\hkieZf_gyx bZyky
[_a]Zeh]_ghkh^_jkZsZy^gZ^]_abb(ijbebiZgby
- Hq_gmklhcqdbha^_ckl\bbjh\hoeZ^_Zxs`b^d hkkbb
kfZau\Zxs`fZl_jbZem
- Mklhcqb\hda^_ckl\bx`fZk_e
- K_jlbnbdZpèyjb_f_g_gb`gkluidhf_s_gb`k]e IPA.
- G_kh^_j`dZevdZa^_eb_l_evgZad m

Special features

- halogen-free, flame-retardant, low adhesion
- largely resistant to grease, coolant fluids and lubricants
- resistant to oil
- IPA cleanroom qualification certificate
- free from any kind of talcum and separating release agents!

ljbf_qZgb_

- Khhll\klm_lRoHS.
- Khhll\klm_l2006/95/EU G65`d lblZgbadhgZijy`_gbx
- >ebl_evgkujhdvdkie mZlZqbbfZevgkhhlg hr`g`g`dZq_kl\Z
- lh`_eZg baxZdzaqijhdZa^h^kfi`pbZevgkkljmdpZk_èyZggh]h
lbiZ

Remarks

- conform to RoHS
- conform to 2006/95/EC-Guideline
- very long lifetime, optimal cost-value ratio
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

Dhgkljmdpèyogbq_k dZjZdl_jbklddb
 ijh\h^gbd f_`guGgh]hij\hehguc
 kljmdlmjZ kh]e DIN VDE 0295e & hhl\ IEC 60228e
 baheypby PELON®
 fzjdbjh\dèe q_jgu`beuk[_ehpbjnh\hfZjdbjh\dhc 1x
 ka_e_gh`_è`brehc
 h[sZykdjmlDZ ihkehcgul\`b`be
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 hd
 \g_rgyly[hehqdz PUR
 p`_h[hehqdb q_jgu`p`_l RAL 9005.
 fzjdbjh\dZ ^Z
 ghfbgZevgZijy`_gb_ ^h0,75 mm² Uo/U 300/500 V
 h11 mm² Uo/U 500/750 V
 bkiulZl_evgZijy`_gb_ `beZ `beZ 2000 V
 `beZ wdjZg 1000 V
 khijhble_gjh`h^Z ijb+20`C]e DIN VDE 0295e & hhl\ IEC
 60228 de 6
 khijhble`pbaheypbb fbg 20 M xkm
 ^ebl_evg^hjmklbfu`_kh]eZkghDIN VDE 0100
 lhdh\ugZ]jmadb
 gZbf_gvrjZ^b`nbla]b[Zx`^bZf_lDZ[_ey
 g_ih^`b`gh
 gZbf_gvrjZ^b`nbla]b[Z,5x`^bZf_lDZ[_ey
 ih^`b`gh
 l_fi_jZljkZpbgZjg-50`C/+80`C
 l_fi_jZljkZpbgZjg-30`C/+80`C
 klhcklZaheypbb kh]e VDE 0482-332-24hhl\ DIN EN 60332-2-1,
 ljm^gh\hkieZf_gyxZyky
 klZg^Zjl DIN VDE 0207, 0250, 0293, 0295, 0472, IEC

Structure & Specifications

conductor material	bare copper strand
conductor class	acc. to DIN VDE 0295 cl. 6 resp. IEC 60228 cl. 6
core insulation	PELON
core identification	black wires with white numerals, 1 x GNYE
overall stranding	stranded in layers
overall shield	copper braid tinned, coverage, appr. 85%
outer sheath	PUR
sheath colour	black RAL 9005
printing	yes
rated voltage	up to 0,75 mm² Uo/U 300/500 V from 1 mm² Uo/U 500/750 V
testing voltage	core/core: 2000 V core/shield: 1000 V
conductor resistance	at +20 °C acc. to DIN VDE 0295 cl. 6 resp. IEC 60228 cl. 6
insulation resistance	min. 20 M x km
current carrying capacity	acc. to DIN VDE 0100
min. bending radius fixed	5 x d
min. bending radius moved	7,5 x d
operat. temp. fixed min/max	- 50 °C / + 80 °C
operat. temp. moved min/max	- 30 °C / + 80 °C
burning behavior	acc. to VDE 0482-332-2-1 resp. DIN EN 60332-2-1, flame retardant
standard	acc. to DIN VDE 0207, 0250, 0293, 0295 and 0472 resp. IEC

ihf_s_gbc



Fraunhofer
TESTED®
DEVICE
TKD 6401 (1/2018)
KAWEFLEX 3231 CLEANLINE
Report No. KA 0409-308

for high requirements, cleanliness-suited

Q b k e' l b e b k _ q _ g l n x mm² dimension n x mm²	G Z j m ` g t ^ b Z f _ l j mm outer Ø mm	< _ k _ ^ b kg/km copper weight kg/km	< _ k d Z [_ e y kg/km weight kg/km	Q b k e' l b e b k _ q _ g l n x mm² dimension n x mm²	G Z j m ` g t ^ b Z f _ l j mm outer Ø mm	< _ k _ ^ b kg/km copper weight kg/km	< _ k d Z [_ e y kg/km weight kg/km
3 G 0,5	6,0	28,0	79,0	4 G 2,5	9,7	143,0	234,0
4 G 0,5	6,7	33,0	93,0	5 G 2,5	10,6	167,0	293,0
5 G 0,5	7,2	40,0	107,0	7 G 2,5	11,6	201,0	418,0
7 G 0,5	8,6	56,0	132,0	12 G 2,5	15,5	351,0	629,0
12 G 0,5	10,4	81,0	190,0	18 G 2,5	18,3	539,0	912,0
18 G 0,5	12,2	120,0	245,0	25 G 2,5	22,3	778,0	1.266,0
25 G 0,5	15,0	181,0	281,0				
				4 G 4	13,5	186,0	349,0
3 G 0,75	6,5	36,0	96,0	5 G 4	14,9	249,0	423,0
4 G 0,75	7,1	45,0	112,0	7 G 4	16,1	343,0	592,0
5 G 0,75	7,8	54,0	126,0				
7 G 0,75	9,0	78,0	165,0	4 G 6	15,7	293,0	499,0
12 G 0,75	10,4	112,0	231,0	5 G 6	17,1	382,0	645,0
18 G 0,75	13,6	182,0	330,0	7 G 6	18,5	485,0	874,0
25 G 0,75	16,4	250,0	459,0				
				4 G 10	20,1	473,0	842,0
3 G 1	7,3	45,0	109,0	5 G 10	26,1	672,0	1.473,0
4 G 1	8,2	58,0	126,0				
5 G 1	8,5	68,0	147,0	4 G 16	25,1	759,0	1.252,0
7 G 1	10,4	102,0	196,0	5 G 16	27,2	905,0	1.465,0
12 G 1	12,8	145,0	292,0	7 G 16	29,9	1.265,0	2.052,0
18 G 1	15,3	235,0	418,0				
25 G 1	18,6	325,0	575,0	4 G 25	28,9	1.140,0	1.510,0
3 G 1,5	7,2	66,0	139,0				
4 G 1,5	8,0	80,0	156,0				
5 G 1,5	10,3	95,0	198,0				
7 G 1,5	12,0	145,0	254,0				
12 G 1,5	15,4	228,0	416,0				
18 G 1,5	18,2	395,0	564,0				
25 G 1,5	22,4	534,0	811,0				