

SINGLE CONDUCTORS

Temperature (°C) - flexing

Temperature (°C) - fixed

Nominal voltage U₀/U

Bending radius - flexing x Ø

Bending radius - fixed x Ø

Halogen-free

UV-resistant

Outdoor use

Drag chain

Colored cores/VDE 0293

Screened/shielded

HAR/VDE REG no./VDE

UL/CSA

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Single Conductors														
		Temperature (°C) - flexing	Temperature (°C) - fixed	Nominal voltage U ₀ /U	Bending radius - flexing x Ø	Bending radius - fixed x Ø	Halogen-free	UV-resistant	Outdoor use	Drag chain	Colored cores/VDE 0293	Screened/shielded	HAR/VDE REG no./VDE	UL/CSA
LiYv	-5 to +70	-30 to +80	500		4x					X				287
H05V-K	-5 to +70	-30 to +80	300/500		4x					X		X		289
H07V-K / (H)07V-K	-5 to +70	-30 to +80	450/750		6x					X		X		291
H05V-K / (H)07V-K	-5 to +70	-30 to +80	300/500		6x					X		X		293
H05V-U / H07V-U	-5 to +70	-30 to +80	300/500		6x					X		X		294
H07V-R	-5 to +70	-30 to +80	450/750		6x					X		X		295
H05V-K, H07V-K, LiY - barrel opening														296
TOPFLEX® 303 X07V-K-Yö	-5 to +80	-40 to +80	0,6/1kV	12x	12x					X				297
LiY single core	-15 to +80	-15 to +80	300/500	8x	8x					X				298
PUR single cores		-40 to +80	1kV	10x	5x	X	X	X		X				299
H05Z-K / H07Z-K		-40 to +90	300/500		6x	X				X		X		300
H05G-U / -K / H07G-U / -R / -K	-25 to +110	-40 to +110	300/500		6x					X		X		302
LiYW / H05V2-K	+5 to +90	+5 to -90/105	300/500		4x					X				303
H07V2-K	+5 to +90	+5 to +90	450/750		10-15x					X		X		304
HELUTHERM® 145	-35 to +120	-55 to +145	300/500	12,5x	4x	X	X	X		X				305
SIF / SIFF		-60 to +180	300/500		6x	X				X				307
SIF/GL, SID, SID/GL		-60 to +180	300/500	15x	15x	X				X				308
FZ-LSi	+180	+180	6-10kV	7,5x	7,5x					X				309
FZ-LS	+180	+180	15-20kV	7,5x	7,5x					X				309
Neon Light Cables	+180	+180	3,5-7,5kV	7,5x	7,5x	X				X				309
HELUFLO®-FEP-6Y	-100 to +205	-100 to +205	600	10x	4x		X	X		X				310
HELUFLO®-PTFE-5Y	-190 to +260	-190 to +260	600	10x	4x		X	X		X				311
HELUFLO®-PTFE-5Y	-190 to +260	-190 to +260	1000	10x	4x		X	X		X				311
HELUTHERM® 400		-60 to +400	500	15x	15x	X				X				312
HELUTHERM® 600 / 600-ES		-60 to +600	500	15x	15x	X						/X		313
HELUTHERM® 800 / 800-ES		-120 to +750	500	15x	15x	X						/X		314
HELUTHERM® 1200 / 1200-ES		-170 to +1000	500	15x	15x	X						/X		315
Ground wire ESUY/ESY	-5 to +70	-5 to +70		12x	12x									316
GALVANIC CABLE®	-40 to +80	-50 to +80	0,6/1kV	15x	15x	X	X	X						317
H01N2-D / -E	-25 to +80	-40 to +80	100/100	12x/10x	12x/10x			X				X		318
NSGAFÖU 3kV	-25 to +80	-40 to +80	1,8/3kV	10x	6x							X		319
NSHXAFÖ 3kV	-25 to +70	-40 to +90	1,8/3kV	10x	6x	X						X		320
TOPFLEX® 300	-5 to +80	-40 to +80	0,6/1kV	7,5x	7,5x			(X)	X					321
KOMPOSPEED® 600 / 600-C	-30 to +90	-40 to +100	0,6/1kV	5/7,5x	3/4x	X	X	X	X			/X		322

The selection table is intended as an initial orientation.
Please see the relevant page of the catalogue for detailed information on the product properties.

SELECTION TABLE - DRAG CHAIN CABLES

Max. movement distance in m
(10 m up to 25-cores)
Min. bending radius - flexing
(D=outer Ø)
Max. speed (m/s)
Max. acceleration (m/s²)
Max. cycles
Material
Nominal voltage U₀/U /
Operating voltage
Temperature (°C) - flexing
Approvals
Page
UL/CSA
equivalent

Single cores for drag chain cables												
KOMPOSPEED® 600	100	5 x D	4	10	11 Mio	Poly/ Poly	600/1000V	-30° to +90°			322	504
KOMPOSPEED® 600-C	100	7.5 x D	4	10	11 Mio	Poly/CU/ Poly	600/1000V	-30° to +90°			322	505
TOPFLEX® 300	5	7.5 x D	2	10	9 Mio	PVC/PVC	600/1000V	-5° to +80°			321	500

A cycle is a double lift: a representative sample has been tested and measured in our Test Workshop. The cycle count is only valid when appropriately and professionally installed (see the installation manual: cable installation in drag chains, see pages 1036 and 1037).

The selection table is intended as an initial orientation.

Please see the relevant page of the catalogue for detailed information on the product properties and the selection tables cables in drag chains, see pages 1030 and 1031.