

LUTZE Technical Overview

LUTZE SUPERFLEX® High Flexing Cable Cycle Ratings

The demanding mechanical requirements in c-tracks require the use of specially designed cables, constructed for continuous flexing. The lifetime of cables in c-tracks highly depends on the mechanical parameters of the application, but also on proper handling and installation of the cable.

Cable Type	Traveling distances	Bending Radius	Speed	Acceleration	Cycles
LUTZE SUPERFLEX® PLUS PUR					

Unshielded cables with special TPE or High Glide Insulation, PUR or TPE jackets	< 16 ft / 5 m	> 10 Ø	< 3 m/s	< 5 m/s ²	20,000,000
	< 67 ft / 20 m	> 7 Ø	< 5 m/s	< 10 m/s ²	10,000,000
	< 328 ft / 100 m	> 7 Ø	< 5 m/s	< 10 m/s ²	2,000,000

LUTZE SUPERFLEX® PLUS (C) PUR					
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Shielded cables with special TPE or High Glide Insulation, special sub-jackets, and PUR or TPE jackets	< 16 ft / 5 m	> 12 Ø	< 3 m/s	< 5 m/s ²	20,000,000
	< 67 ft / 20 m	> 10 Ø	< 5 m/s	< 10 m/s ²	10,000,000
	< 328 ft / 100 m	> 10 Ø	< 5 m/s	< 10 m/s ²	2,000,000

LUTZE SUPERFLEX® N					
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Unshielded cables with special TPE or High Glide Insulation, PVC and Alloy jackets e.g. A138 series	< 16 ft / 5 m	> 12 Ø	< 3 m/s	< 5 m/s ²	10,000,000
	< 49 ft / 15 m	> 10 Ø	< 5 m/s	< 10 m/s ²	5,000,000

LUTZE SUPERFLEX® N (C)					
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Shielded cables with special TPE or High Glide Insulation, fleece wrap or sub-jackets PVC and Alloy jackets e.g. A139 series	< 16 ft / 5 m	> 15 Ø	< 3 m/s	< 5 m/s ²	10,000,000
	< 49 ft / 15 m	> 12 Ø	< 5 m/s	< 10 m/s ²	5,000,000

The data in this table shows actual application parameters and accomplished cycles in independent tests. Flexing cycle performance can only be compared by looking at all the data. A rating of "millions of operations" is meaningless if the distance, speed and bend radius is unknown.

LUTZE SUPERFLEX® Plus M (C) PUR UL Servo 0,6/1 kV, per SIEMENS®* standard acc. to SIEMENS MOTION-CONNECT 800PLUS*

Traveling distances	Bending Radius	Speed	Acceleration
< 10 ft / 3 m	> 10 Ø	< 5 m/s	< 50 m/s ²
< 16 ft / 5 m	> 10 Ø	< 5 m/s	< 30 m/s ²
< 32 ft / 10 m	> 10 Ø	< 5 m/s	< 15 m/s ²
< 49 ft / 15 m	> 10 Ø	< 5 m/s	< 10 m/s ²
< 164 ft / 50 m	> 10 Ø	< 5 m/s	< 5 m/s ²

*registered trademark