



Revision date: 19-12-2019

TECHNICAL PRODUCT INFORMATION

Catenary calculations

LTC ADSS-80

Based on the following installation conditions

Installation temperature 15 °C

Nominal sag 1%

The cables are suitable for the NESC-situations with spans, tensions and sags as listed in the table below

Fibre count	Tubes & fibers	NESC light			NESC medium			NESC heavy		
		Temperature	-1 °C	Temperature	-10 °C	Temperature	-20 °C			
		Wind velocity	26.5 m/s	Wind velocity	17.7 m/s	Wind velocity	17.7 m/s			
		Ice thickness	0 mm	Ice thickness	6.5 mm	Ice thickness	12.5 mm			
n x m	(m)	max. span	max. tension	max. sag	max. span	max. tension	max. sag	max. span	max. tension	max. sag
12	6 x 2	190	3.5	3.7	130	3.5	4.2	80	3.5	4.6
24	6 x 4	215	4.0	3.6	150	4.0	4.2	90	3.9	4.6
32	8 x 4	185	4.1	3.4	135	4.1	4.0	85	4.0	4.4
36	6 x 6	200	4.0	3.5	135	3.9	3.9	85	4.0	4.3
24	3 x 8	190	3.9	3.6	135	3.8	4.1	85	3.8	4.6
48	6 x 8	195	4.1	3.5	140	4.0	4.1	90	4.1	4.5
24	2 x 12	180	3.9	3.4	130	4.0	3.9	80	3.9	4.2
48	4 x 12	185	4.1	3.3	130	4.0	3.8	80	3.9	4.2
72	6 x 12	185	4.1	3.3	130	4.1	3.8	80	4.0	4.1
96	8 x 12	170	4.5	3.1	130	4.5	3.6	85	4.5	4.1
144	12 x 12	155	5.6	2.8	125	5.5	3.2	85	5.5	3.7
144	6 x 24	200	5.4	3.1	150	5.4	3.6	100	5.4	4.1
192	8 x 24	155	5.1	2.9	125	5.2	3.3	85	5.2	3.8
216	9 x 24	170	6.3	2.8	140	6.3	3.2	95	6.2	3.7

Table: operational conditions, max. achievable span, tension and sag.

