

Cable Lengths Matrix

Project Number 160718
 Created by: SuperUser Account
 Created on: 18/07/2016

Project: Test Schedule - new cables & methods

myCableEngineering

Cable Selection

Designation: =N-W3 Voltage: 400 V Frequency: 50 Hz
 BS 7671 Low Voltage - fully sized 2x1c 95 mm² Cu/XLPE/AWA Length: 65 m Soil resistivity: 100 Ω.m
 From: Point 1
 To: Point 2 BS 5467 1997+A3:2008 thermosetting, armoured 600/1000V cable. Single-core copper stranded conductor

Current Capacity

Sizing Method: BS 7671, table 4E3A Design current: 300 A, power factor 0.95 Base Capacity: 850 A
 (operating current: 260 A) **Derateted Capacity: 431 A**

Lengths Matrix

Operating Current, A	Length, m												
	32	38	43	48	54	60	65	70	76	82	87	92	98
182	0.36%	0.43%	0.49%	0.55%	0.62%	0.68%	0.74%	0.80%	0.87%	0.94%	0.99%	1.05%	1.12%
208	0.42%	0.50%	0.56%	0.63%	0.71%	0.79%	0.85%	0.92%	1.00%	1.08%	1.14%	1.21%	1.29%
234	0.48%	0.56%	0.64%	0.71%	0.80%	0.89%	0.97%	1.04%	1.13%	1.22%	1.29%	1.37%	1.46%
260	0.53%	0.63%	0.72%	0.80%	0.90%	1.00%	1.08%	1.17%	1.26%	1.36%	1.45%	1.53%	1.63%
286	0.59%	0.70%	0.79%	0.89%	1.00%	1.11%	1.20%	1.29%	1.40%	1.51%	1.61%	1.70%	1.81%
312	0.65%	0.77%	0.87%	0.98%	1.10%	1.22%	1.32%	1.42%	1.55%	1.67%	1.77%	1.87%	1.99%
338	0.71%	0.85%	0.96%	1.07%	1.20%	1.34%	1.45%	1.56%	1.69%	1.83%	1.94%	2.05%	2.18%

*maximum required voltage drop: 1 %