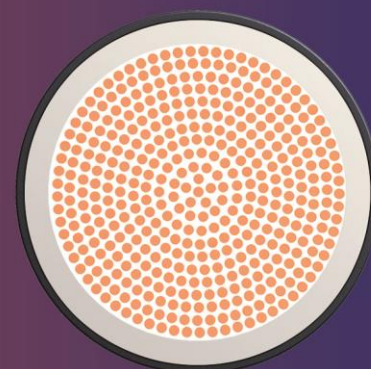
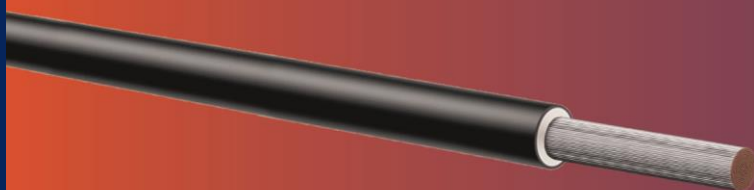


## SINGLE-CORE CABLES

# BETAtherm® 145 UL/CSA 3266

Temperature resistant heat class B, 300 V



## Application

Typical applications are internal wiring in lamps, heating appliances, electric machines (thermal class B) switchboards and distribution boxes in apparatus, mechanical and plant engineering and inverters.

Used for laying in tubes, surface wiring, direct in plaster or underneath it, as well in conduits. May not be laid directly in cable trays, cable racks or cable troughs.

## Construction

Conductor	Tinned fine copper strand, AWG, acc. ASTM-B 286-02 and UL 1581
Isolation	Polyolefin Copolymer, electronbeam cross-linked
Core colour	green-yellow, black, light-blue, brown, red, white, grey, violet, orange, yellow, green, dark-blue. Other colours, also two-coloured upon request

## Advantages

- Very high resistance to temperature
- Resistance to cold down to  $-55\text{ }^{\circ}\text{C}$
- Best fire performance, halogenfree
- Electron-beam cross-linked

BETAtherm® 145 UL/CSA 3266

## Electrical properties

Rated value	U <sub>0</sub> /U	300 / 300 V AC
Test voltage		2.5 kV, 50 Hz / 1 min.

## Thermal properties

Operating temperature	Fixed installation	-55 to + 145°C
Operating temperature	Occasionally moved	-35 to + 120°C
Max. short circuit temperature		+280°C (max. 5s)

## Mechanical properties

Bending radius	Fixed installation	≥ 4 x Ø
Bending radius	Occasionally moved	≥ 6 x Ø

## Additional information

Special types upon request

## Material properties / Standards

Halogenfree	IEC 60754-1, EN 50267-2-1
No corrosive gases	IEC 60754-2, EN 50267-2-2
No toxic gases	NF X 70-100
Low smoke density	IEC 61034, DIN EN 61034-2, EN 50268-2
Flame retardant	EN/IEC 60332-1-2, FT2
Non-flame propagating	IEC 60332-3, DIN EN 60332-3, DIN EN 50266-2
Low fire load	DIN 51900

## Approvals

UL AWM Style 3266, 125°C / 300 V	File No. E146164
CSA AWM I A/B 125°C / 300 V, FT2 (with the exception of AWG 24; due to the lack of core identification)	Certificate No. 1752635



BETAtherm® 145 UL/CSA 3266

Construction Cross-sec.	Conductor-Ø	R <sub>20</sub>	Outer-Ø	Weight	Fire load	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
[AWG]	[mm]	[mΩ/m]	[mm]	[kg/km]	[kWh/m]	Black	White	Red	Light blue	Green-yellow	Brown	Orange	Grey
<b>AWG 24</b>	0.65	83.3	1.45 ±0.2	4.3	0.008	303235	*	303234	304780	*	304778	*	304781
<b>AWG 22</b>	0.80	52.2	1.60 ±0.2	5.8	0.009	211242	*	216473	218714	*	216472	*	216477
<b>AWG 20</b>	1.00	32.0	1.80 ±0.2	8.2	0.012	218669	*	218406	218398	300828	218397	*	218775
<b>AWG 18</b>	1.30	20.4	2.10 ±0.2	12.1	0.013	211613	216636	211611	211612	211610	216479	*	221956
<b>AWG 16</b>	1.45	14.6	2.25 ±0.2	15.7	0.015	218239	*	225292	216483	216480	216638	*	216484
<b>AWG 14</b>	1.85	9.25	2.65 ±0.2	23.6	0.018	303954	*	303955	303956	*	*	*	219889
<b>AWG 12</b>	2.40	5.82	3.30 ±0.2	36.7	0.025	311304	315497	313408	311305	315498	311606	*	317047

Note:

\*: Upon request

