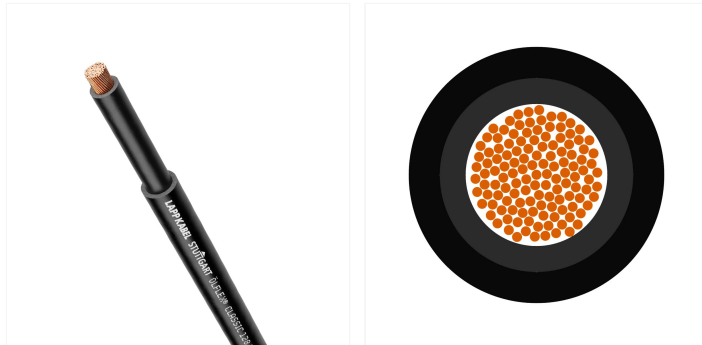


ÖLFLEX® CLASSIC 128 H BK SC 1X120

Article No.: 1123806

Power cables; 1X120; U₀/U: 0,6/1 kV; HFFR; Flexible



CE



Details

Benefits

- Easy handling and installation due to the flexible variant.
- Halogen free and highly flame retardant materials reduce the risk of flame propagation, high smoke density and toxic flue gases in the event of a fire.
- Classified fire behavior according to EU Directive 305/2011 (BauPVO/CPR) with article number selection on the LAPP website.
- High electrical safety thanks to 4000 V test voltage.
- "GN/YE" variants with green-yellow conductor insulation for connecting the protective conductor.
- Variants "RD" and "WH" with red or white conductor insulation in accordance with DIN EN 60445 for direct current systems.

Application

- For structured building cabling for fulfilling special fire protection requirements.
- For direct current applications in the low voltage range.
- For industrial plants in which power is distributed via a direct current grid.
- For universal use for wiring machine-internal and cross-plant control circuits.
- For fixed installation and occasional flexing without tensile strain.
- Can be used in dry and damp rooms.
- Suitable for medium mechanical stress.

Notes

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

If applicable, the prices are solid metal prices without additional charges and VAT. Sales only to business customers.

Unless specified otherwise, the product values shown are rated values at room temperature. You can receive additional values, such as tolerances, upon request if they are available and have been released for publication.

The absence of PWIS raw materials does not protect against the potential risk of contamination with substances that interfere with the paint wetting during subsequent handling of the product(s) during transport, storage or further processing after delivery.

Remarks

Technical Data

General information

Brand	ÖLFLEX®
Product type	Power cables
Copper index	7741.12 lb/10000 ft
Industry segment	Solar

Electrical parameters

Nominal voltage	U ₀ /U: 0,6/1 kV AC rms according to IEC U ₀ /U: 0,75/1,5 kV DC according to IEC
test voltage	4 kV

Product design

Cable dimension	1X120
Nominal cross section conductor (mm ²)	120 mm ²
Conductor material	Bare Copper
Conductor design	IEC 60228 class 5: fine-wire
Including protective ground	No
Number of cores	1

Shielded	No
Nominal outer diameter	0.882 in
Cable form	Round
Core insulation base material	Halogen-free compound
Conductor insulation basic material, short form	HFFR
Insulation color	black
Basic material of outer jacket	Halogen-free compound
Base material of outer sheath, shortname	HFFR
Outer jacket color	black

Product features

Application area	Flexible Fixed Installation
For torsional load	Yes
Minimum bending radius, stationary	4 x outer diameter
Minimum bending radius in inch, fixed installation	3.528 in
Minimum bending radius, occasionally moved	15 x outer diameter
Minimum bending radius in mm, occasionally moved	13.228 in
Torsion	For +/- 150 °/m and min. 5 °C up to 5000 Torsion cycles For +/- 150 °/m and min. 20 °C up to 2000 Torsion cycles
Temperature, fixed installation	-40 °C to 80 °C max. conductor temperature
Temperature, occasionally moved	-5 °C to 70 °C max. conductor temperature
Flame-retardant	Yes
Flame retardance according to	IEC 60332-1-2 IEC 60332-3-24
low smoke density according to	IEC 61034-2
low toxicity of combustion gases	EN 50306-1 (≤ 3)
Corrosiveness of combustion gases according to	IEC 60754-2

UV-resistant	Yes
UV-resistant according to	EN ISO 4892-2, method A (color change permitted) EN 50618 EN 50620 EN 50525-1 (cables with a black jacket are suitable for permanent outdoor use)
Ozone-resistant	Yes
ozone resistant according to	EN 50396, method B
Halogenfree	Yes
Halogen-free according to	IEC 60754-1
Oil resistant	No
PWIS-free	Yes
PWIS-free according to	VDMA 24364-B2-L

Certifications and standards

CE marking	Yes
UL recognized	No
UL listed	No
cUR recognized	No
cUL listed	No
CSA certified	No
VDE certified	No
Product standard DIN / EN	based on EN 50525-3-11
DNV-certified	No
CPR fire class	Cca
CPR smoke density	s1a
CPR droplets	d2
CPR acidity	a1
Resistance to flame propagation tested according to UN/ECE-R118	No
Tested for fire protection for railway vehicles	No

ÖLFLEX® CLASSIC 128 H BK SC

Article No.	Name	Nominal cross section conductor (mm ²)	Insulation color	Nominal outer diameter	Copper index	CPR fire class
1123800	ÖLFLEX® CLASSIC 128 H BK SC 1X16	16 mm ²	black	0.378 in	1032.15 lb/10000 ft	Cca
1123801	ÖLFLEX® CLASSIC 128 H BK SC 1X25	25 mm ²	black	0.445 in	1612.73 lb/10000 ft	Cca
1123802	ÖLFLEX® CLASSIC 128 H BK SC 1X35	35 mm ²	black	0.492 in	2257.83 lb/10000 ft	Cca
1123803	ÖLFLEX® CLASSIC 128 H BK SC 1X50	50 mm ²	black	0.594 in	3225.47 lb/10000 ft	Cca
1123804	ÖLFLEX® CLASSIC 128 H BK SC 1X70	70 mm ²	black	0.669 in	4515.65 lb/10000 ft	Cca
1123805	ÖLFLEX® CLASSIC 128 H BK SC 1X95	95 mm ²	black	0.772 in	6128.39 lb/10000 ft	Cca
1123806	ÖLFLEX® CLASSIC 128 H BK SC 1X120	120 mm ²	black	0.882 in	7741.12 lb/10000 ft	Cca
1123807	ÖLFLEX® CLASSIC 128 H BK SC 1X150	150 mm ²	black	0.953 in	9676.4 lb/10000 ft	Cca
1123808	ÖLFLEX® CLASSIC 128 H BK SC 1X185	185 mm ²	black	1.035 in	11934.23 lb/10000 ft	Cca
1123809	ÖLFLEX® CLASSIC 128 H BK SC 1X240	240 mm ²	black	1.213 in	15482.25 lb/10000 ft	Cca
1123811	ÖLFLEX® CLASSIC 128 H BK SC 1G16 GN/YE	16 mm ²	green/yellow	0.378 in	1032.14 lb/10000 ft	Cca
1123812	ÖLFLEX® CLASSIC 128 H BK SC 1G25 GN/YE	25 mm ²	green/yellow	0.445 in	1612.73 lb/10000 ft	Cca
1123813	ÖLFLEX® CLASSIC 128 H BK SC 1G35 GN/YE	35 mm ²	green/yellow	0.492 in	2257.82 lb/10000 ft	Cca
1123814	ÖLFLEX® CLASSIC 128 H BK SC 1G50 GN/YE	50 mm ²	green/yellow	0.594 in	3225.45 lb/10000 ft	Cca
1123815	ÖLFLEX® CLASSIC 128 H BK SC 1G70 GN/YE	70 mm ²	green/yellow	0.669 in	4515.63 lb/10000 ft	Cca
1123816	ÖLFLEX® CLASSIC 128 H BK SC 1G95 GN/YE	95 mm ²	green/yellow	0.772 in	6128.36 lb/10000 ft	Cca
1123817	ÖLFLEX® CLASSIC 128 H BK SC 1G120 GN/YE	120 mm ²	green/yellow	0.882 in	7741.08 lb/10000 ft	Cca
1123818	ÖLFLEX® CLASSIC 128 H BK SC 1G150 GN/YE	150 mm ²	green/yellow	0.953 in	9676.35 lb/10000 ft	Cca
1123819	ÖLFLEX® CLASSIC 128 H BK SC 1G185 GN/YE	185 mm ²	green/yellow	1.035 in	11934.17 lb/10000 ft	Cca
1123820	ÖLFLEX® CLASSIC 128 H BK SC 1G240 GN/YE	240 mm ²	green/yellow	1.213 in	15482.17 lb/10000 ft	Cca

V1.1