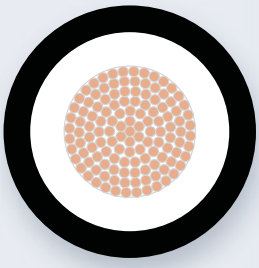
UTICA Solar 125 RV flex FRNC

Photovoltaic power cables, halogen free, flame retardant





Advantages

- Electron-beam cross-linked compounds
- UV, ozone and hydrolysis resistant
- High temperature resistant, the materials do not melt or flow
- Very long life cycle > 25 years at 90 °C
- Compatible to all popular connectors
- Flexible and space-saving installation

UTICA Solar 125 RV flex FRNC

Applications

Double insulated, electron-beam cross-linked cables for photovoltaic power applications. With reduced diameter and integrated jacket.

Construction

■ Conductor	Tinned fine copper strands, acc. to VDE 0295 / IEC 60228, class 5
■ Insulation	XLPO, flame retardant, halogen free, electron-beam cross-linked
■ Jacket	XLPO, flame retardant, halogen free, electron-beam cross-linked, UV and ozone resistant
■ Jacket colour	black

Electrical characteristics

Operation temperature	U_0/U = 600 / 1000 V AC, 1000 / 1800 V DC
Test voltage	6500 V, 50 Hz, 5 min.

Thermal characteristics

Operation temperature	– 40 °C up to + 125 °C
	– 40 °F up to + 257 °F
Ambient temperature	– 40 °C up to + 90 °C
> 25 years (TÜV)	– 40 °F up to + 194 °F
Short circuit temperature	280 °C, + 536 °F max.

Bending radius ∅ <10 mm

Fixed installation	> 4 × ∅	> 5 × ∅
Occasionally moved	> 5 × ∅	> 7 × ∅

Standards / Material properties

- Fire performance: IEC 60332-1, IEC 60332-3-24
- Smoke emission: IEC 61034; EN 61034-2
- Low fire load: DIN 51900
- Approvals: TÜV 2 PfG 1169 08.2007 PV1-F
- Application standards: UNE 21123; UNE 20.460-5-52, UTE C 32-502



Dimensions, weights

Construction	Inscription	Conductor construction	Conductor ∅	Outer ∅	Resistance	Weight	Fire load	Order no.
n × mm²	Colour	n × mm	mm	mm	max. mΩ/m	kg/km	kWh/m	
1 × 2.5	○ white	45 × 0.25	2.05	4.65	8.21	41	0.079	**304467**
1 × 4	○ white	52 × 0.30	2.55	5.05	5.09	56	0.086	**304468**
1 × 6	○ white	78 × 0.30	3.10	5.65	3.39	76	0.100	**304469**
1 × 10	○ white	75 × 0.40	4.10	6.70	1.95	118	0.126	**304471**
1× 16	○ white	119 × 0.40	5.50	9.70	1.24	211	0.288	**304472**
1 × 25	○ white	182 × 0.40	6.60	11.20	0.79	304	0.369	**304474**
1 × 35	○ white	259 × 0.40	7.70	12.30	0.56	404	0.414	**304475**
1 × 50	○ white	380 × 0.40	9.90	14.90	0.39	582	0.558	**304476**
1 × 2.5	● red	45 × 0.25	2.05	4.65	8.21	41	0.079	**307701**
1 × 4	● red	52 × 0.30	2.55	5.05	5.09	57	0.086	**306470**
1 × 6	● red	78 × 0.30	3.10	5.65	3.39	77	0.100	**306471**

Order units

Construction	Inscription	Order no.	Order no.	Order no.	Order no.	Order no.
n × mm²	Colour	50 × 100 m	24 × 500 m	18 × 500 m	18 × 1000 m	8 × 1000 m
1 × 4	○ white	**304468V8**	**304468V1**	∅	**304468V2**	∅
1 × 6	○ white	**304469V8**	∅	**304469V2**	∅	**304469V3**
1 × 10	○ white	∅	∅	**304471V2**	∅	∅
1 × 4	● red	∅	**306470V1**	∅	**306470V2**	∅
1 × 6	● red	∅	∅	**306471V2**	∅	**306471V3**

More information on the standard packaging unit see transport conditionspage page 19.
Further packaging units upon request.

Bold printed order no. = stock item
Further designs upon request.