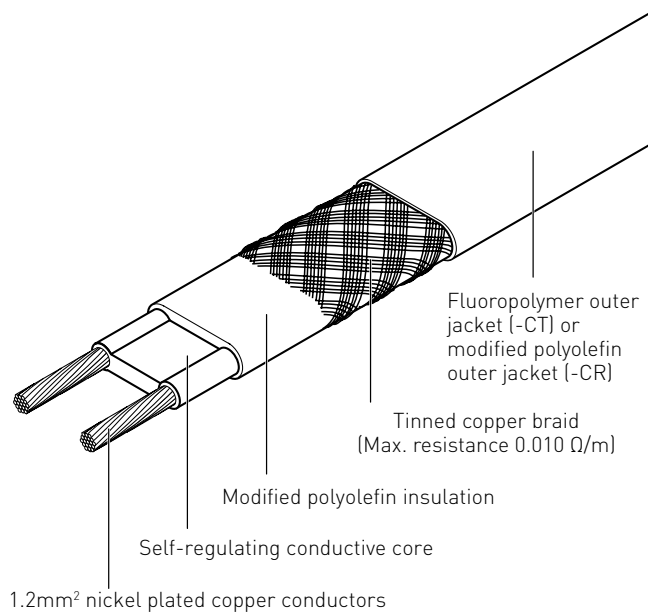


SELF-REGULATING HEATING CABLE

HEATING CABLE CONSTRUCTION



Electrical heat-tracing for frost protection without steam cleaning.

The UFA-family of self-regulating, parallel circuit heating cables is used for frost protection of pipes and vessels. It can also be used for process temperature maintenance up to 65°C.

APPLICATION

Area classification	Hazardous, Zone 1, Zone 2 (Gas), Zone 21, Zone 22 (Dust) Ordinary
Traced surface type	Carbon steel Stainless steel Plastic Painted or unpainted metal
Chemical resistance	For organic corrosives: use -CT (fluoropolymer outer jacket) For mild inorganic solutions: use -CR (modified polyolefin outer jacket)

SUPPLY VOLTAGE

230 Vac (Contact your local SANTO representative for data on other voltages)

APPROVALS

The UFA heating cables are approved for use in hazardous areas by PTB and Baseefa Ltd.

The UFA heating cables are approved by DNV for use on ships and mobile offshore units.

EAC (Russia, Kazakhstan, Belarus)
For other countries contact your local SANTO representative.

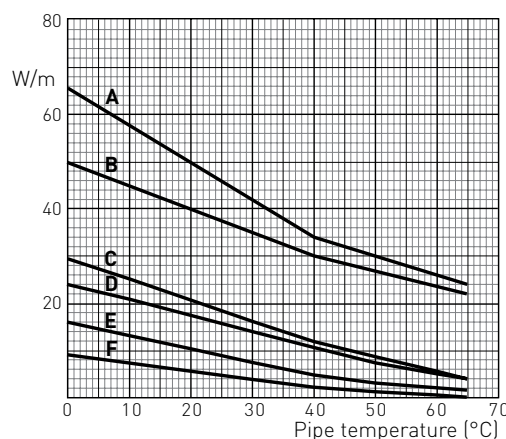
SPECIFICATIONS

Maximum maintain or continuous exposure temperature (power on/off)	70°C
Maximum intermittent exposure temperature (power on/off)	90°C
Temperature classification	T6
Minimum installation temperature	-60°C
Minimum bend radius	at 20°C: 13 mm at -60°C: 35 mm

THERMAL OUTPUT RATING

Nominal power output at 230 Vac on insulated steel pipes

- A** 20UFA-CT
20UFA-CR
- B** 15UFA-CT
15UFA-CR
- C** 10UFA-CT
10UFA-CR
- D** 8UFA-CT
8UFA-CR
- E** 5UFA-CT
5UFA-CR
- F** 3UFA-CT
3UFA-CR



	3UFA-CR 3UFA-CT	5UFA-CR 5UFA-CT	8UFA-CR 8UFA-CT	10UFA-CR 10UFA-CT	15UFA-CR 15UFA-CT	20UFA-CR 20UFA-CT
Nominal power output (W/m at 10°C)	9	16	25	29	50	66

PRODUCT DIMENSIONS (NOMINAL) AND WEIGHT

	3UFA-CR 3UFA-CT	5UFA-CR 5UFA-CT	8UFA-CR 8UFA-CT	10UFA-CR 10UFA-CT	15UFA-CR 15UFA-CT	20UFA-CR 20UFA-CT
Thickness (mm)	5.5	5.5	5.5	5.5	5.5	5.5
Width (mm)	10.5	10.5	15.4	15.4	15.4	15.4
Weight (g/m)	110	110	153	153	153	153

MAXIMUM CIRCUIT LENGTH BASED ON TYPE 'C' CIRCUIT BREAKERS ACCORDING TO EN 60898

Electrical protection sizing	Start-up temperature	Maximum heating cable length per circuit (m)					
		3UFA-CR 3UFA-CT	5UFA-CR 5UFA-CT	8UFA-CR 8UFA-CT	10UFA-CR 10UFA-CT	15UFA-CR 15UFA-CT	20UFA-CR 20UFA-CT
16 A	-20°C	155	110	70	45	34	25
	+10°C	200	160	110	65	50	38
20 A	-20°C	195	140	90	55	41	30
	+10°C	200	160	125	85	70	55
25 A	-20°C	200	160	110	70	55	30
	+10°C	200	160	125	105	85	70
32 A	-20°C	200	160	125	90	75	60
	+10°C	200	160	125	110	90	75

Part description	3UFA-CR	5UFA-CR	8UFA-CR	10UFA-CR	15UFA-CR	20UFA-CR
Part No.	2000-001	2000-003	2000-005	2000-007	2000-009	2000-0011
Part description	3UFA-CT	5UFA-CT	8UFA-CT	10UFA-CT	15UFA-CT	20UFA-CT
Part No.	2000-002	2000-004	2000-006	2000-008	2000-010	2000-012

COMPONENTS

SANTO offers a full range of components for power connections, splices and end seals. These components must be used to ensure proper functioning of the product and compliance with electrical requirements.