

## Container Crane Spreader Cables



### APPLICATION

- Container Crane Spreaders
- Timber cranes
- Mobile booms

### DESIGN

This advanced cable design is used for vertical free-fall operation in outdoor marine environments that require cable self coiling and uncoiling in a collector basket. This design allows for a heavy construction which greatly improves the coiling performance while giving a small cable diameter, reducing the wind effect on the cable.

Extra finely stranded copper conductors are insulated with PROTODUR cold resistant PVC. Conductors are grouped in bundles around lead beaded weight element cords. The bundles are textile taped and laid up around the central supporting element that consists of multiple lead beaded cords with a KEVLAR reinforcing braid. Additional lead beaded weight element cords and textile fillers complete the conductor assembly. A black polyurethane sheath which is resistant to oil, grease, abrasion, and cold temperature is extruded overall.

The cable should not be used for applications employing force guiding devices such as reelers, guide rollers or sheaves.

### OPERATING TEMPERATURE

- Minimum permissible ambient temperature -55°C
- Maximum permissible conductor temperature 75°C
- Maximum permissible short circuit temperature 150°C
- Minimum ambient temperature for optimum fully flexible operation -20°C

### CURRENT CARRYING CAPACITY

Current ratings are based on continuous operation at an ambient temperature of 40°C. At other temperatures these values must be converted using the following table.

°C	15	20	25	30	35	40	45	50	55	60	65	70	75	80
Factor	1.26	1.20	1.15	1.10	1.05	1.00	0.94	0.88	0.81	0.73	0.65	0.57	0.47	0.34

### VOLTAGE RATING

The cable is designated 300/500V in accordance with VDE/IEC.

- Rated Voltage:  $U_0/U = 300/500V$
- Maximum operating voltages in:
  - 3 phase AC operation  $U_0/U = 318/550V$
  - DC operation  $U_0/U = 413/825V$
- AC test voltage = 2kV

### OPERATING SPEEDS

SPREADERFLEX is suitable for hoist speeds up to 120 m/per minute.

### SUSPENSION LENGTH

The KEVLAR braided reinforcement messenger is rated to provide a safety factor of five when the cable is suspended vertically for 50 metres.

Note: Installation instructions are available on request

### CORE COLOUR IDENTIFICATION

All control cores are black, sequentially numbered and include a green/yellow earth core.

## Selection and ordering data

	No. of Cores x Conductor Size	Part No.	Approx. No. of Strands x Max. Strand Diameter	Diameter of Bare Conductor	Cable Overall Diameter	Cable Weight	Unenclosed Spaced
	mm <sup>2</sup>		mm	Max mm	mm	kg/km	A
<b>SPREADERFLEX</b>	<b>48 x 1.0</b>	<b>5DE5 797</b>	55 x 0.16	1.5	33.8	2250	16
	<b>30 x 2.5</b>	<b>5DE5 798</b>	76 x 0.21	2.6	33.5	2360	28
	<b>36 x 2.5</b>	<b>5DE5 788</b>	76 x 0.21	2.6	37.8	2800	28
	<b>42 x 2.5</b>	<b>5DE5 790</b>	76 x 0.21	2.6	41.2	3530	28

