

## SPREADER REEL PUR-HF D12YST11YU11Y: low voltage cables PUR sheathed for vertical reeling



### Application

Flexible low voltage reeling cable for application under high mechanical stresses, specially designed for vertical reeling operation (spreader reeling application).

### Global data

Brand	SPREADER REEL
Type designation	D12YST11YU11Y-JZ

### Design features

Conductor	Plain copper, flexible class 5 acc. to DIN EN 60228 / DIN VDE 0295
Insulation	Halogen free compound, based on polyester
Core identification	White with black numbers, similar to HD 308
Core arrangement	Central aramid strain element; cores twisted in layers with short length of lay
Inner sheath	Polyurethan, halogen free, flame retardant
Reinforcement	Open braid, reinforced
Outer sheath	Polyurethane, halogen free, flame retardant, opaque; Colour: black
Marking	White imprint: D12YST11YU11Y-JZ PUR-HF SPEZIAL (number of cores) x (cross-section) DRAKA DE (week/year)

### Electrical parameters

Rated voltage	0.6/1 kV (600/1000V)
Max. permissible operating voltage AC	0.7/1.2 kV
Max. permissible operating voltage DC	0.9/1.8 kV
AC Test Voltage	4 kV (5 Min.)
Current Carrying Capacity description	Acc. to DIN VDE 0298-4

### Chemical parameters

Resistance to fire	Similar to IEC 60332-1
Resistance to oil	According to EN 60811-404
Water resistance	The cables are suitable for permanent use in water (no drinking water) up to 50 meter diving depth.

### Thermal parameters

Max. permissible temperature at conductor	90 °C
Max. short circuit temperature of the conductor	250 °C
Ambient temperature for fixed installation	min -50 °C ; max +80 °C
Ambient temperature in fully flexible operation	min -40 °C ; max +80 °C

### Mechanical parameters

Max. tensile load	Increased tensile load through additional support elements (see table).
Torsional stress	± 50 °/m
Min. bending radius	6 x D (Proved by flexing tests acc. to HD 22.2 part 3.1)
Min. distance with S-type directional changes	20 x D
Travel speed	- Vertical reeling: up to 180 m/min

Number of cores x cross section	Part number	Conductor diameter max. mm	Outer diameter min. mm	Outer diameter max. mm	Bending radius free moving min. mm	Weight (ca.) kg/km	Permissible tensile force max. N	Conductor resistance at 20°C max. Ω/km	Current carrying capacity (1) A	Short Circuit Current (conductor) kA
24x2,5	20074331	2	23.8	25.2	151	980	3000	7.98	30	0.36
30x2,5	20074131	2	25.8	27.4	164	1290	3375	7.98	30	0.36
36x2,5	20074356	2	30.2	32.2	193	1530	3750	7.98	30	0.36
42x2,5	20074550	2	34.1	36.5	219	1940	4125	7.98	30	0.36
44x2,5	20119442	2	36.1	38.5	231	2080	4250	7.98	30	0.36
9x(5x2,5)		2	38.8	41.2	247	2150	3810	7.98	30	0.36
8x(6x2,5)	20076165	2	42.7	45.1	271	2620	4000	7.98	30	0.36
14x(4x2,5)	20161383	2	40	42.4	254	2410	4000	7.98	30	0.36

(1) Nominal current carrying capacity for rubber cables laid on a surface, at 30°C ambient temperature (see also VDE 0298-4, Table 15).

For articles without part number the values shown are approximate, and need to be confirmed in case of order.

The tensile loads values given are valid for systems where kelling grips are used to take the tensile load on the head block. In case of different application please contact the manufacturer.