

# HELUPOWER® SOOW



**S: Service cord - OO: oil-resistant insulation & jacket - W: water resistant, 600 V, 90°C**



UL SOOW 90°C SUN & WATER RES 600 V FT2 CSA TYPE SOOW 90°C FT2

## TECHNICAL DATA

Rubber control and connection cable acc. to UL Std. 62, CSA Std. C22.2 No. 49

Temperature range flexing -20°C to +90°C  
static -40°C to +90°C

Permissible operating temperature of the conductor +90°C

Nominal voltage AC U 600 V

Test voltage conductor/conductor 2500 V

Minimum bending radius flexing 10x Outer Ø  
static 6x Outer Ø

- 16 conductor(s): BK, WT, RD, GN, OR, BL, WT-BK, RD-BK, GN-BK, OR-BK, BL-BK, BK-WT, RD-WT, GN-WT, BL-WT, BK-RD
- x = without protective conductor
- Conductors stranded in layers with optimal lay lengths
- Wrapping
- Outer jacket: rubber (CPE)
- Jacket color: black

## PROPERTIES

- Resistant to: oil, ozone, weathering effects, greases, water, UV radiation (SUN RES)
- For outdoor use

## CABLE STRUCTURE

- Copper wire bare, finely stranded, AWG sizes
- Conductor insulation: rubber (EPR)
- Conductor identification:
  - 2 conductor(s): BK, WT
  - 3 conductor(s): BK, WT, GN
  - 4 conductor(s): BK, WT, RD, GN
  - 5 conductor(s): BK, WT, RD, GN, OR
  - 6 conductor(s): BK, WT, RD, GN, OR, BL
  - 7 conductor(s): BK, WT, RD, GN, OR, BL, WT-BK
  - 8 conductor(s): BK, WT, RD, GN, OR, BL, WT-BK, RD-BK
  - 10 conductor(s): BK, WT, RD, GN, OR, BL, WT-BK, RD-BK, GN-BK, OR-BK
  - 12 conductor(s): BK, WT, RD, GN, OR, BL, WT-BK, RD-BK, GN-BK, OR-BK, BL-BK, BK-WT

## TESTS

- Flame-retardant acc. to CSA FT2
- Certifications and approvals:
  - Mine Safety and Health Administration (MSHA), U.S. Department of Labor
  - For Class 1 Div. 2 explosive environments acc. to NEC Art. 501

## APPLICATION

Standardized, heavy, rubber-jacketed cable for usage in dry, moist, wet rooms as well as outdoors. Used as supply cable in industrial plants and processing facilities, for cranes, hand lamps, lifting devices, construction machinery and motors.

Part no.	No. conductors x AWG No.	Outer Ø min - max mm	Current carrying capacity*	Cu weight kg/km	Weight kg/km, approx.
11161802	2 x 18	8.7 - 9.7	10	15.8	113.0
11161803	3 x 18	9.2 - 10.2	10	23.7	133.0
11161804	4 x 18	9.8 - 10.9	7	31.6	141.0
11161805	5 x 18	11.7 - 13.0	5.6	39.5	194.0
11161806	6 x 18	12.6 - 13.8	5.6	47.4	219.0
11161808	8 x 18	13.4 - 14.6	4.9	63.2	255.0
11161816	16 x 18	18.1 - 19.7	3.5	126.4	436.0
11161602	2 x 16	9.3 - 10.4	13	25.2	126.0
11161603	3 x 16	9.8 - 10.9	13	37.7	148.0
11161604	4 x 16	10.4 - 11.7	10	50.3	174.0
11161605	5 x 16	12.5 - 14.0	8	62.9	233.1
11161606	6 x 16	13.5 - 14.7	8	75.5	263.0
11161607	7 x 16	13.5 - 14.7	8	88.0	278.0
11161608	8 x 16	14.5 - 15.7	7	100.6	312.0
11161610	10 x 16	16.5 - 18.1	7	125.8	377.0
11161612	12 x 16	17.8 - 19.4	5	150.9	461.0
11161616	16 x 16	19.4 - 21.4	5	201.2	572.0
11161402	2 x 14	12.6 - 14.0	18	39.9	237.0
11161403	3 x 14	13.2 - 14.6	18	59.9	273.0
11161404	4 x 14	14.2 - 15.7	15	79.9	321.0
11161405	5 x 14	16.0 - 17.9	12	99.8	400.0
11161406	6 x 14	17.5 - 19.1	12	119.8	439.0
11161407	7 x 14	17.5 - 19.1	12	139.8	456.0
11161408	8 x 14	18.6 - 20.6	10.5	159.7	525.0
11161412	12 x 14	22.2 - 24.6	7.5	239.6	731.0

Part no.	No. conductors x AWG No.	Outer Ø min - max mm	Current carrying capacity*	Cu weight kg/km	Weight kg/km, approx.
11161202	2 x 12	14.4 - 15.9	25	63.4	314.0
11161203	3 x 12	15.0 - 16.6	25	95.0	359.0
11161204	4 x 12	16.3 - 18.0	20	126.7	406.1
11161205	5 x 12	17.8 - 19.6	16	158.4	524.0
11161206	6 x 12	19.0 - 21.0	16	190.1	547.0
11161002	2 x 10	15.6 - 17.4	30	101.0	386.0
11161003	3 x 10	16.5 - 18.3	30	151.5	462.0
11161004	4 x 10	17.8 - 19.7	25	202.0	554.0
11161005	5 x 10	19.3 - 21.3	20	252.5	644.0
11160802	2 x 8	19.8 - 22.4	40	160.6	576.0
11160803	3 x 8	21.1 - 23.6	40	240.9	713.0
11160804	4 x 8	23.5 - 26.7	35	321.3	921.0
11160805	5 x 8	25.4 - 29.2	28	401.6	1120.0
11160602	2 x 6	23.4 - 26.7	55	255.4	824.0
11160603	3 x 6	24.6 - 27.9	55	383.0	979.7
11160604	4 x 6	26.7 - 30.5	45	510.7	1240.0
11160605	5 x 6	30.0 - 33.8	36	638.4	1500.0
11160402	2 x 4	26.9 - 30.7	70	407.0	1135.0
11160403	3 x 4	28.7 - 32.5	70	610.6	1424.0
11160404	4 x 4	31.8 - 36.8	60	814.1	1904.0
11160405	5 x 4	33.5 - 37.0	48	1017.6	2143.0
11160202	2 x 2	30.7 - 35.6	95	645.1	1555.0
11160203	3 x 2	33.0 - 38.1	95	967.7	1959.0
11160204	4 x 2	36.8 - 41.9	80	1290.2	2477.5
11160205	5 x 2	39.0 - 43.0	64	1612.8	3064.0

\* Current carrying capacity at 30°C in air