

TOPSERV® 600 VFD



Oil Res I/II, exposed run: TC-ER, PLTC-ER, ITC-ER, NFPA 79, EMC-preferred type



TECHNICAL DATA

Motor and servo cable acc. to UL-Std. 1277 (TC-ER), UL-Std. 2277 (WTTC), CSA-Std. C22.2 No. 210 - AWM I/II A/B, CSA-Std. C22.2 No. 230 & 239 - c(UL) CIC-TC, UL-Std. 2250 (ITC-ER), UL-Std. 13 (PLTC-ER), 18 AWG - 12 AWG: UL-Std. 2250 (ITC-ER), UL-Std. 13 (PLTC-ER), 14 AWG - 2 AWG: UL-Std. 44 (RHW-2)

Temperature range	flexible +5°C to +50°C fixed -40°C to +105°C UL (TC) to +90°C
Nominal voltage	UL (TC) AC 600 V UL (WTTC) AC 1000 V CIC-TC AC 600 V
Test voltage core/core	6000 V
Test voltage core/screen	6000 V
Minimum bending radius	flexible 10x Outer-Ø fixed 5x Outer-Ø

CABLE STRUCTURE

- Copper wire tinned, finely stranded acc. to ASTM B174 Class M (18-10 AWG) / ASTM B174 Class K (8-2 AWG), AWG sizes
- Core insulation: XLPE
- Core identification: black cores with consecutive labeling in white digits
- G = with protective conductor GN-YE, in the outer layer
- Cores stranded in layers with optimally matched lay lengths
- Fleece wrapping
- Screen: braided screen of tinned copper wires, approx. coverage 85%
- Fleece wrapping
- Outer sheath: Special TPE
- Sheath colour: see table
- Length marking: in feet

PROPERTIES

- resistant to: oil, UV radiation (SUN RES)
- for outdoor use

- direct burial (DIR BUR)
- suitable for use in drag chains
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

TESTS

- oil-resistant acc. to UL Std 1277 Tab. 12.2, Oil Res I / Oil Res II
- Cold Bend Test acc. to UL Std. 1277 No. 17
- Impact Test (-ER) acc. to UL Std. 1277 No. 23
- Crushing Test (-ER) acc. to UL Std. 1277 No. 24
- direct burial (DIR BUR) acc. to UL Std. 1277 No. 5 (wet-locations insulation), No. 19 (crushing test)
- Vertical-Tray Flame Test (FT4) acc. to UL Std. 1277 No. 15 / UL Std. 1685
- certifications and approvals:
EAC
ECOLAB®
for Class 1 Div. 2 explosive environments acc. to NEC Art. 501

APPLICATION

Highly flexible, extremely oil-resistant motor supply cable for modern servomotors; the tinned copper braid screen (approx. 85% coverage) provides effective protection against electrical disturbances and the resultant failures. For open, unprotected installation in cable trays and from cable trays to the machine. The special TPE sheath is extremely resistant to oil, coolants and solvents and hence the perfect solution for industrial applications with open installation, installation in pipes or in earth.

NOTES

- Conductor sizes are based on the AWG measurement system, metric conductor sizes (mm²) are approximated and are for reference only
- for use in energy supply systems:
1) the assembly instructions must be observed
2) for special applications, we recommend contacting us and using our data entry form for energy supply systems

Sheath color: black (RAL 9005)

Part no.	No. cores x AWG-No.	Cross-sec. mm ² , approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
62607	4 G 18	0.82	11.9	60.8	182.0
62608	4 G 16	1.31	12.9	82.5	219.0
62609	4 G 14	2.08	14.5	115.0	290.0
62610	4 G 12	3.31	16.5	171.0	379.0
62611	4 G 10	5.26	18.0	239.0	484.0
62612	4 G 8	8.37	23.2	393.0	796.0
62613	4 G 6	13.30	24.9	606.0	1042.0
62614	4 G 4	21.20	28.0	922.0	1429.0
62615	4 G 2	33.60	32.0	1396.0	2009.0

Sheath colour: orange (RAL 2003)

Part no.	No. cores x AWG-No.	Cross-sec. mm ² , approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
62616	4 G 18	0.82	11.9	60.8	182.0
62617	4 G 16	1.31	12.9	82.5	219.0
62618	4 G 14	2.08	14.5	115.0	290.0
62619	4 G 12	3.31	16.5	171.0	379.0
62620	4 G 10	5.26	18.0	239.0	484.0
62621	4 G 8	8.37	23.2	393.0	796.0
62622	4 G 6	13.30	24.9	606.0	1042.0
62623	4 G 4	21.20	28.0	922.0	1429.0
62624	4 G 2	33.60	32.0	1396.0	2009.0