

TRAYCONTROL 600 flexible, oil-resistant,

TRAY CABLE for open installation TC-ER, PLTC-ER, ITC-ER, NFPA 79 Edition 2007



HELUKABEL® TRAYCONTROL 600 P/N 62960 12 AWG (3.31mm²)/4C (UL) TC-ER 90C DRY 75C WET 600V SUN RES DIR BUR OIL RES I E330430 OR MTW "FLEXING" OR WTTTC 1000V OR c(UL) CIC-TC PVC/N FT4 --- LL41103 CSA AWM I/II A/B 90C 600V FT4 CE ROHS

RoHS

Technical Data

- PVC power cable according to UL 1277
- **Temperature range**
UL/CSA TC -40°C to +90°C
UL / AWM -40°C to +90°C
- **Nominal voltage**
TC 600 V
AWM 1000 V
WTTTC 1000 V
- **Test voltage**
3000 V
- **Minimum bending radius**
Approx. 5x cable Ø
- **Insulation resistance**
Min. 20 MOhm x km
- **Radiation resistance**
Up to 80x10⁶ cJ/kg (up to 80Mrad)

Cable Structure

- Bare copper conductor, fine wire stranded with AWG dimensions
- Special PVC core insulation with transparent nylon skin
- Black cores with continuous white numbering
- Green-yellow earth core in the outer layer, 3 cores and more
- Cores stranded in layers with optimal lay-lengths
- Separator
- Special PVC outer jacket
- Sheath colour - black (RAL 9005)
- With length marking in feet

Properties

- Self-extinguishing and flame retardant material in accordance with CSA FT4
- The materials used in manufacture are free of silicone, cadmium and substances that impair paint wetting
- UV-resistant
- **Tests**
UL: TC-ER, PLTC-ER (AWG 18 - AWG 12), ITC-ER (AWG 18 - AWG 12), UL 1277, UL Type WTTTC, UL Type MTW NFPA 79 2007, Oil Res I (Oil Res II also available), 90° C dry / 75° C wet
CSA:
c (UL) CIC-TC FT4
CSA AWM I/II A/B FT4

Notes

- G = with green-yellow earth core
- X = without earth core (OZ)

Advantages

- TC-ER, Tray Cable Exposed Run
- Simple installation
- Outstanding flexibility

Application

USA NFPA79, Edition 2007 compliant flexible power cables to 600 V (WTTTC 1000 V), for all machinery in tool and plant construction, suitable for installation in dry, damp and wet environments, outdoors and in pipes. For underground installation and for open, unprotected installation from the cable tray to the machine and industrial plants.

CE = The product conforms to the EG Low-Voltage Directive 2006/95/EG.

Part No.	Number of cores	Outer Ø approx. mm	Cop. Weight kg/km	Weight approx. kg/km
18 AWG / 1 mm² (19/30)				
62902	2	7.0	19	68
62903	3	7.1	29	88
62904	4	8.0	39	97
62905	5	8.6	48	116
62906	7	9.3	67	147
62907	9	10.7	86	186
62908	10	11.6	96	199
62909	12	11.9	115	250
62910	15	13.2	144	292
62911	16	13.3	154	306
62912	18	14.6	173	365
62913	19	14.7	182	384
62914	25	17.0	240	480
62915	27	17.4	259	521
62916	34	19.3	326	625
62917	37	19.8	355	684
62918	41	20.7	394	744
62919	50	23.5	480	933
62920	61	24.9	586	1095

Two-core cables without earth core, not ER. Dimensions and specifications may be changed without prior notice.

Part No.	Number of cores	Outer Ø approx. mm	Cop. Weight kg/km	Weight approx. kg/km
16 AWG / 1.32 mm² (26/30)				
62921	2	7.5	25	80
62922	3	7.8	38	86
62923	4	8.5	51	120
62924	5	9.3	63	130
62925	6	10.0	76	164
62926	7	10.1	89	188
62927	8	10.9	101	201
62928	9	11.7	114	238
62929	10	12.4	127	259
62930	12	12.9	152	301
62931	14	14.5	177	365
62932	15	15.0	190	379
62933	16	15.2	203	405
62934	18	15.9	228	430
62935	19	16.0	241	450
62936	20	16.5	253	481

Continuation ►

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Part No.	Number of cores	Outer Ø approx. mm	Cop. Weight kg/km	Weight approx. kg/km	Part No.	Number of cores	Outer Ø approx. mm	Cop. Weight kg/km	Weight approx. kg/km
62937	25	18.6	317	564	8 AWG / 10 mm ² (168/30)				
62938	27	19.0	342	629	62978	4	19.7	384	615
62939	30	19.6	380	701	62979	5	21.7	480	768
62940	34	20.5	431	775	6 AWG / 16 mm ² (266/30)				
62941	40	22.9	507	946	62980	3	19.5	461	700
62942	41	23.4	519	967	62981	4	21.9	614	907
62943	50	25.1	634	1137	62982	5	24.0	768	1100
62944	61	27.2	773	1345	4 AWG / 25 mm ² (413/30)				
14 AWG / 2.08 mm² (41/30)					62983	3	24.3	720	1061
62945	2	8.6	40	100	62984	4	27.1	960	1366
62946	3	8.9	60	117	62985	5	29.3	1200	1631
62947	4	9.8	80	141	2 AWG / 35 mm ² (665/30)				
62948	5	10.6	100	152	62986	3	27.9	1008	1480
62949	6	11.6	120	216	62987	4	31.4	1344	1922
62950	7	11.9	140	255	62988	5	34.0	1680	2360
62951	9	13.5	180	312	1 AWG / 42.3 mm ²				
62952	10	15.5	200	378	62989	4	34.8	1624	2397
62953	12	15.9	240	434	1/0 AWG / 52.9 mm ²				
62954	16	17.6	319	550	62990	4	37.9	2031	2938
62955	18	18.3	359	616	2/0 AWG / 67.3 mm ²				
62956	19	18.5	380	634	62991	4	41.3	2584	3569
62957	25	21.6	500	817	3/0 AWG / 84.8 mm ²				
12 AWG / 3.31 mm² (65/30)					62992	4	48.6	3256	4181
62958	2	9.5	63	132	4/0 AWG / 106.7 mm ²				
62959	3	10.0	95	177	62993	4	51.2	4097	5747
62960	4	10.9	127	201	250 KCMIL / 128.4 mm ²				
62961	5	11.9	159	274	62994	4	55.0	4931	7591
62962	6	13.0	191	315	350 KCMIL / 181.9 mm ²				
62963	7	13.1	222	353	62995	4	63.5	6985	8299
62964	9	15.9	286	476	500 KCMIL / 257.6 mm ²				
62965	12	17.8	381	613	62996	4	73.7	9892	11549
62966	16	19.8	508	783					
62967	19	20.8	604	918					
62968	20	21.9	636	961					
62969	25	25.3	794	1286					
10 AWG / 6 mm² (105/30)									
62970	2	11.9	115	213					
62971	3	12.6	173	283					
62972	4	14.7	230	387					
62973	5	16.0	288	473					
62974	7	17.4	403	607					
62975	9	20.4	518	771					
62976	12	23.9	691	1061					
62977	19	27.9	1094	1528					

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