

MEGAFLEX 650 high-flex, oil-resistant, exposed run TC-ER, PLTC-ER, ITC-ER, NFPA 79



HELUKABEL MEGAFLEX 650 TPE 16AWG 1,32QMM 9C (UL) TC-ER 90C DRY / WET 600V SUN RES DIR BUR OIL RES I/II E330430 OR WTTC 1000V OR DP-1 OR ITC-ER OR PLTC-ER OR C(UL) CIC-TC PVC/N FT4 - - - 257839 CSA AWM I/II A/B 90C 600V FT4 CE

Technical data

- TPE control and power cable acc. to UL Std. 1277 and 2277
- **Temperature range**
UL/CSA TC -40°C to +90°C
flexing +5°C to +50°C
static -40°C to +90°C
- **Nominal voltage**
UL/CSA TC 600 V
UL WTTC 1000 V
- **Test voltage** 3000 V
- **Minimum bending radius**
flexing 7,5x cable Ø

Cable structure

- Finely stranded (Cl. M), bare copper acc. to AWG standards
- Special PVC conductor insulation with transparent nylon coating
- Blue conductors with continuous white numbering & 1 GN-YE conductor. When 3 conductors or more, second conductor is blue/white neutral.
- Conductors stranded in layers with optimal lay length
- Separator
- Special TPE outer jacket
- Black (RAL 9005) jacket
- With length marking in feet

Properties

- Self-extinguishing and flame retardant acc. to CSA FT4
- The materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers
- UV-resistant
- Direct burial rated
- **Tests**
UL:
TC-ER (1277), WTTC (2277) & DP-1 - (18 AWG - 500kcmil), ITC-ER & PLTC-ER - (20-12 AWG), NFPA 79, Class I Div. 2 per NEC Art. 501, NEC Art. 336 & 392, Oil Res I/II, 90°C Dry/Wet
CSA:
C22.2 No. 230 & 239 - c(UL) CIC-TC FT4 (18-4/0 AWG), C22.2 No. 210 - AWM I/II A/B FT4

Note

- Cable printing incl. both AWG/mm² & TC-ER

Available on request

- Red and black conductors
- Gray and orange outer jacket
- Shielded variant - consult factory as minimum length required

Application

MEGAFLEX 650 is a highly flexible, oil-resistant control and power cable. The special combination of TC-ER, PLTC-ER and ITC-ER allows this cable to be used as a connecting cable for machines located in industrial plants in accordance with NFPA 79. Approved for open, unprotected installation from cable trays to the machine in dry, damp & wet environments. Its outstanding oil resistance (Oil Res I/II) guarantees a long service life. Recommended applications: production lines, bottling plants, machine construction, switch cabinets, conveyor systems, packaging machines, and within the automotive industry.

Please observe applicable installation instructions for use in drag chains.

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

Part no.	Cross section mm ²	No. conductors x AWG No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
11009739	0,519	2 x 20	6,9	9,7	53,0
11009740	0,519	3 x 20	7,2	14,6	64,0
11009741	0,519	4 x 20	7,7	19,3	76,0
11009742	0,519	5 x 20	8,3	24,3	86,0
11009743	0,519	7 x 20	9,7	33,9	118,0
11009744	0,519	9 x 20	10,9	43,6	151,0
11009745	0,519	12 x 20	11,2	58,2	160,0
11009746	0,519	18 x 20	13,0	87,2	226,0
11009747	0,519	25 x 20	16,5	121,1	354,0
11009748	0,824	2 x 18	7,2	15,3	62,0
709986	0,824	3 x 18	7,5	22,3	76,0
709987	0,824	4 x 18	8,1	29,8	92,0
709988	0,824	5 x 18	8,8	38,7	106,0
709989	0,824	7 x 18	10,3	53,6	146,0
11009749	0,824	9 x 18	11,6	68,8	188,0
11009750	0,824	10 x 18	12,3	76,3	210,0
709990	0,824	12 x 18	12,0	92,3	204,0
709991	0,824	15 x 18	13,2	116,1	253,0
11009751	0,824	16 x 18	13,2	122,2	260,0
709992	0,824	18 x 18	14,7	138,4	317,0
11009752	0,824	19 x 18	15,6	145,1	346,0
709993	0,824	25 x 18	17,6	193,5	449,0
11009753	0,824	27 x 18	17,2	206,1	436,0
11009754	0,824	34 x 18	19,1	259,5	548,0
11009755	0,824	37 x 18	20,0	282,5	595,0
11009756	0,824	41 x 18	20,7	313,1	646,0
11009757	0,824	50 x 18	23,3	381,7	805,0
11009758	0,824	61 x 18	25,4	465,8	960,0

Part no.	Cross section mm ²	No. conductors x AWG No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
11009759	1,31	2 x 16	8,1	24,3	79,0
709994	1,31	3 x 16	8,5	35,7	99,0
709995	1,31	4 x 16	9,2	47,6	122,0
709996	1,31	5 x 16	10,0	59,5	142,0
11009760	1,31	6 x 16	10,8	72,6	168,0
709997	1,31	7 x 16	11,9	84,8	199,0
11009761	1,31	8 x 16	12,7	96,7	228,0
709998	1,31	9 x 16	14,3	110,1	285,0
11009762	1,31	10 x 16	15,1	121,0	318,0
709999	1,31	12 x 16	14,7	145,8	309,0
11009763	1,31	14 x 16	15,4	169,4	351,0
11009764	1,31	15 x 16	16,2	181,4	384,0
11009765	1,31	16 x 16	16,2	193,5	393,0
710138	1,31	17 x 16	17,0	205,7	428,0
710000	1,31	18 x 16	17,0	217,7	438,0
11009766	1,31	19 x 16	18,1	229,9	478,0
11009767	1,31	20 x 16	18,1	242,0	488,0
710001	1,31	25 x 16	20,5	302,4	625,0
11009768	1,31	27 x 16	20,1	326,7	609,0
11009769	1,31	30 x 16	20,8	363,0	667,0
710002	1,31	34 x 16	23,3	411,3	821,0
710003	1,31	41 x 16	25,2	496,0	967,0
710004	1,31	50 x 16	27,1	604,9	1128,0
710005	1,31	60 x 16	28,7	725,8	1306,0
11009770	1,31	61 x 16	29,7	738,0	1364,0
11009771	2,08	2 x 14	8,7	39,1	99,0
712295	2,08	3 x 14	9,1	58,6	127,0
712442	2,08	4 x 14	9,9	78,1	160,0

Continuation ▶

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Part no.	Cross section mm ²	No. conductors x AWG No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
11009772	2,08	5 x 14	10,7	97,6	188,0
11009773	2,08	6 x 14	11,6	118,8	223,0
11009774	2,08	7 x 14	12,8	136,8	265,0
11009775	2,08	9 x 14	15,4	175,9	374,0
11009776	2,08	10 x 14	16,3	195,4	418,0
11009777	2,08	12 x 14	15,9	234,4	416,0
11009778	2,08	16 x 14	17,5	312,5	534,0
11009779	2,08	18 x 14	18,4	351,7	597,0
11009780	2,08	19 x 14	19,6	371,1	649,0
11009781	2,08	25 x 14	23,2	488,4	904,0
11009782	3,31	2 x 12	10,1	62,1	135,0
11009783	3,31	3 x 12	10,7	93,0	177,0
11009784	3,31	4 x 12	11,6	124,1	225,0
11009785	3,31	5 x 12	12,7	155,1	268,0
11009786	3,31	6 x 12	14,6	186,0	348,0
11009787	3,31	7 x 12	16,1	217,1	412,0
11009788	3,31	9 x 12	18,3	279,2	535,0
11009789	3,31	12 x 12	18,8	372,2	598,0
11009790	3,31	16 x 12	20,8	496,2	774,0
11009791	3,31	18 x 12	23,0	558,2	918,0
11009792	3,31	19 x 12	24,4	589,2	999,0
11009793	3,31	20 x 12	24,4	620,3	1024,0
11009794	3,31	25 x 12	27,7	755,3	1311,0
11009795	5,21	2 x 10	12,0	97,3	190,0

Part no.	Cross section mm ²	No. conductors x AWG No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
11009796	5,21	3 x 10	12,7	143,7	255,0
11009797	5,21	4 x 10	14,8	191,7	357,0
11009798	5,21	5 x 10	16,1	239,6	425,0
11009799	5,21	7 x 10	19,4	335,3	603,0
11009800	5,21	9 x 10	23,2	431,1	843,0
11009801	5,21	12 x 10	23,9	574,9	938,0
11009802	5,21	18 x 10	27,8	862,2	1359,0
11009803	5,21	19 x 10	29,6	910,2	1482,0
11009804	5,21	25 x 10	33,8	1197,7	1959,0
11009805	8,37	3 x 8	16,9	234,5	435,0
11009806	8,37	4 x 8	18,5	312,7	557,0
11009807	8,37	5 x 8	20,3	390,9	672,0
11009808	8,37	7 x 8	25,6	547,2	1024,0
11009809	13,3	3 x 6	18,5	376,2	600,0
11009810	13,3	4 x 6	20,3	501,5	776,0
11009811	13,3	5 x 6	23,3	627,0	997,0
11009812	13,3	7 x 6	28,1	877,7	1423,0
11009813	21,2	3 x 4	24,0	657,2	1032,0
11009814	21,2	4 x 4	26,4	876,1	1337,0
11009815	21,2	5 x 4	28,9	1095,1	1630,0
11009816	33,6	3 x 2	28,5	1028,8	1492,0
11009817	33,6	4 x 2	31,5	1371,6	1947,0
11009818	33,6	5 x 2	34,6	1714,5	2392,0

Dimensions and specifications may be changed without prior notice. (RN01)