

MULTIFLEX 600-C highly flexible, oil-resistant, shielded, EMC-preferred type, exposed run TC-ER, PLTC-ER, ITC-ER, NFPA 79



Technical data

- Highly flexible PVC 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 WTTTC 1000 V
- **Test voltage** 3000 V
- **Coupling resistance**
max. 250 Ohm/km
- **Minimum bending radius**
flexing 7,5x cable Ø
- **Insulation resistance**
min. 20 MOhm x km
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)

Cable structure

- Finely stranded (Cl. M), bare copper acc. to AWG standards
- Special PVC conductor insulation with transparent nylon coating
- Conductor identification to DIN VDE 0293 black conductors with continuous white numbering
- GN-YE conductor, 3 conductors and above in the outer layer
- Conductors stranded in layers with optimal lay length
- Foil separator
- Braided, tinned copper shield, approx. 85% coverage
- Separator
- Special PVC outer jacket
- Black (RAL 9005) jacket
- With length marking in feet

Properties

- Self-extinguishing and flame retardant in 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
- Resistant to cleaning and disinfecting agents acc. to



Tests

- **UL:**
TC-ER (1277), WTTTC (2277) & DP-1 - (18 AWG-500 kcmil), ITC-ER & PLTC-ER - (20-12 AWG), MTW, 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

Advantages

- Highly flexible, simple installation

Available on request

- With blue conductors (DC)
- With red conductors (AC)
- Gray or TPE outer jacket

Application

MULTIFLEX 600-C is a highly flexible, shielded, 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.

EMC = Electromagnetic compatibility

To optimize the EMC features we recommend a large round contact of the copper braiding on both ends.

☑ 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	Part no.	Cross section mm ²	No. conductors x AWG No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
62556	0,519	2 x 20	7,4	25,0	81,0	62580	1,31	18 x 16	17,7	278,6	535,0
62557	0,519	3 x 20	7,7	30,8	93,0	62581	1,31	25 x 16	21,1	378,6	745,0
62558	0,519	4 x 20	8,2	37,5	108,0	62582	1,31	34 x 16	24,0	495,6	958,0
62559	0,519	5 x 20	8,8	44,2	120,0	62583	2,08	3 x 14	9,6	81,4	167,0
62560	0,519	7 x 20	10,2	58,6	159,0	62584	2,08	4 x 14	10,4	103,6	203,0
62561	0,519	12 x 20	11,7	87,8	209,0	62585	2,08	5 x 14	11,3	125,7	234,0
62562	0,519	18 x 20	13,5	122,5	282,0	62586	2,08	7 x 14	13,3	171,6	321,0
62563	0,519	25 x 20	17,0	165,0	422,0	62587	2,08	9 x 14	16,0	216,5	441,0
62564	0,519	34 x 20	18,5	229,6	534,0	62588	2,08	12 x 14	16,4	276,5	486,0
62565	0,824	3 x 18	8,1	40,5	107,0	62589	2,08	18 x 14	19,1	418,8	703,0
62566	0,824	4 x 18	8,6	50,2	126,0	62590	2,08	25 x 14	23,9	572,2	1040,0
62567	0,824	5 x 18	9,3	59,8	141,0	62591	3,31	3 x 12	11,2	120,8	224,0
62568	0,824	7 x 18	10,8	80,1	189,0	62592	3,31	4 x 12	12,2	155,1	276,0
62569	0,824	12 x 18	12,5	123,7	255,0	62593	3,31	5 x 12	13,2	189,4	323,0
62570	0,824	15 x 18	13,7	150,6	311,0	62594	3,31	7 x 12	16,6	259,8	482,0
62571	0,824	18 x 18	15,2	175,8	381,0	62595	5,21	4 x 10	15,4	230,4	424,0
62572	0,824	25 x 18	18,2	254,5	549,0	62596	5,21	5 x 10	16,6	282,5	496,0
62573	0,824	34 x 18	19,8	329,9	659,0	62597	5,21	7 x 10	20,0	406,9	716,0
62574	1,31	3 x 16	9,0	57,1	135,0	62598	8,37	4 x 8	19,3	397,8	693,0
62575	1,31	4 x 16	9,8	71,6	162,0	62599	8,37	5 x 8	21,1	485,3	817,0
62576	1,31	5 x 16	10,5	86,2	184,0	62600	13,3	4 x 6	21,1	596,3	926,0
62577	1,31	7 x 16	12,4	116,4	250,0	62602	13,3	5 x 6	24,1	732,0	1163,0
62578	1,31	9 x 16	14,8	145,8	347,0	62603	21,2	4 x 4	27,2	998,1	1534,0
62579	1,31	12 x 16	15,2	183,5	393,0	62605	33,6	4 x 2	32,3	1521,3	2187,0