



FLAMEBLOCKER TYPE TC-ER 600V, 1000V FLEXIBLE MOTOR SUPPLY AND WTTC CABLE

UL 1277, UL44, UL 2277, UL 1581

Motor Power Supply Cable with XL insulation and PVC sheath, with double screen

CONSTRUCTION

Conductors	Flexible, stranded soft drawn copper conductors
Ground conductors	3 flexible, stranded soft drawn copper conductors
Insulation	Flame retardant special crosslinked XL compound type XHHW-2 acc. to UL 44
Core identification	3 core: black numbered 1,2,3
Screen	Wrapping of aluminium/polyester foil and tinned copper wire braiding, coverage approx. 90%
Outer sheath	Flame retardant, oil and UV resistant black PVC compound acc. to UL 1277



Characteristic

Maximum conductor operating temperature	+90°C
Lowest ambient temperature for fixed installation	-40°C
Lowest installation temperature	-5°C
Maximum short-circuit conductor temperature	+250°C
Minimum bending radius	up to 12 mm: 5D fixed installation, 10D free-movement > 12 to 20 mm: 7,5D fixed installation, 15D free-movement > 20 mm: 10D fixed installation, 20D free-movement
Continuous tensile load	15 N/mm ² of conductor cross-section for free-flexing operation 50 N/mm ² of conductor cross-section for fixed installation
Test voltage 50 Hz	3500V
Oil resistant	I IRM 902 oil acc. to UL1277
Installation properties	Dir Bur (direct burial)

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Fire performance

Flame retardant (Vertical Tray Flame Test) : FT-4 / IEEE 1202

Approvals & Certificates

UL certificate for Power and Control Tray Cables : QPOR.E310468

APPLICATIONS:

- Motor power supply cables are intended for use as power supply and connection cables for frequency-controlled drive systems. Applications include machine tools, production and processing machines, machining centres, industrial handling systems, robot systems and transfer stations. Suitable for use with industrial pumps, ventilators, conveyor belts and air-conditioning installations and similar applications. They are specially designed for fixed installation or occasional free flexing under conditions of medium mechanical stress in dry, damp or wet indoor areas use and ground.
- **Standard length cable packing** 500m on drums. Other forms of packing and delivery are available on request

Number and size AWG	Minimum average thickness of insulation		Minimum average thickness of outer sheath		Approximate overall diameter		Approximate net weight of cables	
	mils	mm	mils	mm	Inch	mm	Lbs.	kg/km
3x12AWG+3x16AWG	30	0,76	45	1,14	0,48	12,3	658	298
3x10AWG+3x14AWG	30	0,76	60	1,52	0,59	15,0	962	436
3x8AWG+3x14AWG	45	1,14	60	1,52	0,74	18,7	1437	651
3x6AWG+3x12AWG	45	1,14	80	2,03	0,87	22,0	1994	904
3x4AWG+3x10AWG	45	1,14	80	2,03	0,97	24,5	2813	1276
3x3AWG+3x8AWG	45	1,14	80	2,03	1,02	26,0	3446	1563
3x2AWG+3x8AWG	45	1,14	80	2,03	1,11	28,2	3980	1805
3x1AWG+3x6AWG	55	1,4	80	2,03	1,25	31,7	5273	2391
3x1/0AWG+3x8AWG	55	1,4	80	2,03	1,34	33,9	5808	2634
3x1/0AWG+3x6AWG	55	1,4	80	2,03	1,34	33,9	6090	2762
3x2/0AWG+3x4AWG	55	1,4	80	2,03	1,41	35,8	7325	3322
3x3/0AWG+3x3AWG	55	1,4	80	2,03	1,58	40,1	9249	4195
3x4/0AWG+3x6AWG	55	1,4	80	2,03	1,65	42,0	9643	4374
3x4/0AWG+3x2AWG	55	1,4	80	2,03	1,65	42,0	10833	4913
3x250MCM+3x1AWG	65	1,65	110	2,79	1,88	47,7	13715	6220
3x350MCM+3x1/0AWG	65	1,65	110	2,79	2,12	53,9	1811	8215
3x500MCM+3x2/0AWG	65	1,65	110	2,79	2,53	64,2	24336	11038