

EMC/VSD Cable

Vari-Flex - Flexible Variable Speed Drive Cable - XLPE



Application:

Variable speed drives (VSDs), equipment control and measurement. All applications requiring electrical/electronic screening of cable.

Benefits	
Excellent Screening	Huge reduction in electrical and electronic emissions from cable
Reduced Noise Effects	Greatly reduces the effects of noise disturbance on cable signals
Easy to Terminate / to Use	Fibrillated non-hygroscopic fillers make cable round and easy to terminate with an EMC gland
Extremely Flexibility	Class 5 flexible conductor stranding and flexible braid stranding
Easy to Solder	Tinned copper conductors for easy adhesion

Features	
✓ Tinned copper braid and foil screen provides excellent screening from external EMI	
✓ Oxygen free tinned copper for high conductivity soldered connections and corrosion protection	
✓ Lighter weight and reduced overall diameter	
✓ Split earths (6mm ² and larger) provide enhanced harmonics	
✓ UV resistant transparent 4V75 PVC sheath	
✓ RoHS compliant to European environmental requirements	

Construction	
Conductor	Oxygen free tinned annealed copper wire, class 5
Insulation	X-90 XLPE
Screening	Oxygen free tinned annealed copper wire braid, minimum coverage of 85%, or Aluminium/PET tape with oxygen free tinned annealed copper wire braid, 100% coverage
Sheath	4V75 PVC
Colours	2 Core + Earth - Blue, brown & green/yellow 3 Core + Earth - Black, blue, brown & green/yellow >= 5 core - white numbered cores and green/yellow

Ratings	
Temperature	-10°C to + 75°C
Voltage	0.6/1kV
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS5000.1, AS/NZS1660.5.6, IEC 60228, IEC 60332-1



Flexible Conductor:
Class 5



Oxygen Free, Tinned
Copper for Corrosion
Resistance



Minimum Service
Temperature:
-10°C



Maximum Service
Temperature:
75°C



Maximum Short
Circuit
Temperature:
250°C



Cross-Linked Insulation



Impact Resistant



Abrasion Resistance



Chemical & Oil
Resistant



UV Resistant



Flame
Non-Propagation



Metre Marking



Minimum Recommended
Bend Radius Fixed 6 x OD

SYDNEY (Head Office)
102 Old Pittwater Road
Brookvale NSW 2100
Phone: 02 9938 5622
Fax: 02 9938 3973

BRISBANE
Unit 4/12 Selhurst St
Coopers Plain QLD 4108
Phone: 07 3344 1763
Fax: 07 3345 4076

MELBOURNE
9/24-26 Carrick Drive
Tullamarine VIC 3043
Phone: 03 9335 2600
Fax: 03 9330 3903

NEWCASTLE
64 Orlando Road
Lambton NSW 2299
Phone: 02 4956 2044
Fax: 02 4956 1983

WESTERN AUSTRALIA
1 Karratha St
Welshpool WA 6106
Phone: 08 9351 9966
Fax: 08 9356 2522



Vari-Flex - Variable Speed Drive Cable - XLPE - Braid and Foil Screen

Bambach Item Code	Construction	Conductor CSA mm ²	Nom. Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
46028	2 Core + E	1	30/0.20	10.2	15	110
46029	2 Core + E	1.5	30/0.25	10.7	18	158
46030	2 Core + E	2.5	50/0.25	11.7	25	209
46031	2 Core + E	4	56/0.30	13.2	33	274
46032	2 Core + E	6	84/0.30	14.7	42	349
46034	3 Core + E	1.5	30/0.25	11.5	16	180
46035	3 Core + E	2.5	50/0.25	12.6	21	230
46036	3 Core + E	4	56/0.30	14.2	28	329
46037	3 Core + 3E	6C + 1E	84/0.30	15.9	36	406
46038	3 Core + 3E	10C + 1.5E	140/0.30	17.2	51	562
46039	3 Core + 3E	16C + 2.5E	224/0.30	19.7	67	801
46040	3 Core + 3E	25C + 4E	350/0.30	23.9	89	1182
46041	3 Core + 3E	35C + 6E	494/0.30	26.7	110	1615

Vari-Flex - Variable Speed Drive Cable - XLPE - Braid Screen

Bambach Item Code	No. of Cores x Conductor CSA mm ²	Nom. Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
46044	3 x 1.5	30/0.25	10.6	18	151
46045	3 x 2.5	50/0.25	11.6	25	192
46046	7 x 0.75	24/0.20	11.7	6	186
46047	7 x 1.5	30/0.25	13.3	12	269
46048	12 x 0.75	24/0.20	14.8	5	291
46049	12 x 1.5	30/0.25	16.7	9	404

*Current ratings based on AS/NZS3008.1.1:2009 table 11, column 6 and table 13 column 6 and table 22 row 2
Note: the screen is not designed as an electrical safety earth and should not be used in place of a protective earth.