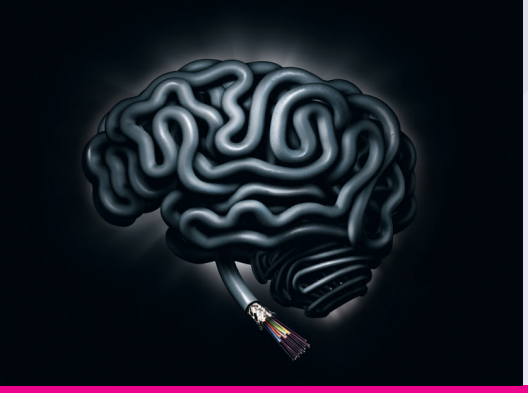


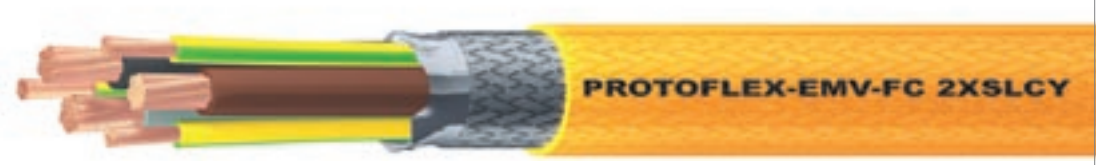
PRYSMIAN
CABLES & SYSTEMS

PROTOFLEX EMV-FC
2XSLCY-J 0.6/1 kV
Motor Power Supply Cable

ENERGY

Technical Data

	Trademark	PROTOFLEX EMV-FC
	Type designation	2XSLCY-J
	Specification	PRYSMIAN Specification
	Application	Especially for frequency converter controlled AC drives. For fixed installation and occasional free flexing indoors in dry, damp and wet conditions as well as outdoors, for medium mechanical stress. For areas with explosion hazard.
Electrical parameters	Nominal voltage in three phase AC-operation	
	- U0/U	0.6/1 kV
	- Umax(eff)	1.2 kV
	AC test voltage	5 kV
	Max. permissible peak AC voltage	Û 2.4 kV
	For connection on frequency converter	U max. 690 V
	Current-carrying capacity	The definitions in DIN VDE 0298 part 4 apply. The current-carrying capacity values in the selection table are valid for one cable, installed on a surface, ambient temperature 40 °C.
	Transfer impedance	<= 30 Ohm/km
Thermal parameters	Maximum permissible temperature at conductor	90 °C
	Maximum permissible short-circuit temperature at conductor	250 °C (max. 5 s)
	Mimnimum permissible temperature	- when in motion: -5 °C - when stationary: -40 °C
Mechanical parameters	Permissible pulling force	- when in motion: max 15 N/mm² - when stationary: max 50 N/mm²
	Minimum permissible bending radii	see selection table
Electro-magnetic compatibility	Radio frequency interference (RFI) and RFI-voltage	Optimization of the design of cable and screen (EMC optimized regarding to radio frequency interferences field strength and radio frequency interferences voltage)
Other parameters	Fire performance - flame propagation, single cable	DIN EN 60332-1-2
	Ozone resistance of sheath	DIN EN 60811-2-1 clause 8
	UV Resistance of sheath	UL 1581 clause 1200



Design features

Trademark	PROTOFLEX EMV-FC
Conductor	Copper, plain, finely stranded, class 5 according to DIN EN 60228
Protective earth conductor	Copper, plain, finely stranded, class 5 according to DIN EN 60228 - for cross-sections > 10 mm² the protective earth conductor is divided into three cores
Insulation	Cross-linked polyethylene (XLPE) compound 2XI1 according to DIN VDE 0276-604
Core identification	green-yellow, brown, black, grey; according to DIN VDE 0293-308
Screen	Multi-layer screen: - aluminum-coated foil - braid of tinned copper wires
Sheath	PVC compound ST2 according to IEC 60502 Colour: orange, transparent
Marking	>year of manufacturing< PROTOFLEX EMV-FC 2XSLCY-J >No. of cores< x >cross sectional area< 600/1000 V

Selection and ordering data

Number of cores and cross sectional area of conductor mm²	Order No.	Approx. diameter over screen mm	Max. outer diameter mm	Minimum bending radius when stationary mm	Minimum bending radius when in motion mm	Net weight per 1000 m kg	Current carrying capacity at 40 °C A	Operating capacitance (approx.) nF/km	Electr. cross-section of screen (approx.) mm²
PROTOFLEX EMV-FC 2XSLCY-J									
4x1.5	5DE6 600	8.4	11.5	69	92	150	21	130	2.7
4x2.5	5DE6 601	9.4	13.0	100	125	205	27	145	3.1
4x4	5DE6 602	11.6	15.5	124	155	320	37	145	5.0
4x6	5DE6 603	12.8	17.0	136	170	410	48	160	5.7
4x10	5DE6 604	15.3	19.5	156	195	600	67	185	6.4
3x16+3x2.5	5DE6 605	16.2	21.0	168	210	770	90	235	8.5
3x25+3x4	5DE6 606	19.8	24.5	196	245	1110	119	245	10.0
3x35+3x16/3	5DE6 607	22.5	28.0	224	280	1510	147	270	12.5
3x50+3x25/3	5DE6 608	26.7	33.0	264	330	2140	184	270	17.9
3x70+3x35/3	5DE6 610	30.6	37.0	296	370	2860	228	295	19.0
3x95+3x50/3	5DE6 611	35.1	42.0	336	420	3740	274	300	25.8
3x120+3x70/3	5DE6 612	39.6	46.5	372	465	4810	320	315	27.7
3x150+3x70/3	5DE6 613	44.3	51.5	412	515	5850	368	315	34.4
3x185+3x95/3	5DE6 614	48.9	57.0	456	570	7100	420	315	40.3
3x240+3x120/3	5DE6 615	55.8	64.5	516	645	9400	498	320	53.6
3x300+3x150/3	5DE6 616	62.9	72.0	576	720	11680	576	330	62.5