

EMC connecting cable

2YSL(St)CYv



Application: This cable was specifically developed for the EMC-compliant connection of frequency converters. For uses with medium mechanical strain with permanent installation and occasional motion indoors and outdoors, but not in the ground. The version with the three-stranded protective conductor is thinner, lighter and distinguished by improved EMC-properties. The cable is largely oil-resistant.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	polyethylene
Screen:	aluminium foil + tinned copper braid
Screen coverage:	75 %
Sheathing material:	PVC, enforced
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Transfer impedance:	250 Ohm/km



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Bending radius acc. DIN EN 50565-1

application	<12 mm	12-20 mm	>20 mm
fixed installation	5D	7.5D	10D
free movement	10D	15D	20D

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Nominal voltage U₀:	0.6 kV
Nominal voltage U:	1 kV
Maximum permitted operating voltage in three-phase systems:	1.2 kV
Test voltage:	4 kV
Protective conductor:	yes
Core identification:	colours acc. to VDE 0293 (HD308)

part no.	part name	RI [Ohm/km]	I _{bl} [A]	Ø [mm]	Cu	G [kg]
031993	03X1.5 + 3G0.25	13.3	18	10.2	86	140
031994	03X2.5 + 3G0.5	7.98	26	11.4	144	220
031995	03X4 + 3G0.75	4.95	34	13.1	224	323
031996	03X6 + 3G1	3.3	44	14.9	298	420
031871	03X10 + 3G1.5	1.91	61	18.4	511	615
031997	03X16 + 3G2.5	1.21	82	21.6	723	819
031870	03X25 + 3G4	0.78	108	25.3	1204	1402
031998	03X35 + 3G6	0.554	135	27.8	1535	1718
031999	03X50 + 3G10	0.386	168	32.6	2208	2399
031869	03X70 + 3G10	0.272	207	38.9	2980	3173
032000	03X95 + 3G16	0.206	250	44.3	3953	4162
031868	03X120 + 3G16	0.161	292	46.8	5007	5253
032001	03X150 + 3G25	0.129	335	53.5	5412	6128
032002	03X185 + 3G35	0.106	382	59.5	6969	7450
032130	03X240 + 3G50	0.0801	453	70	9123	10800
032928	03X300 + 3G70	0.0641	523	74	11965	13760
031719	04X1.5	13.3	18	10.4	95	154
031720	04X2.5	7.98	26	12.3	150	229
031721	04X4	4.95	34	14.5	235	339
031712	04X6	3.3	44	16.8	320	451
031722	04X10	1.91	61	19.7	533	667
031723	04X16	1.21	82	22	789	892
031724	04X25	0.78	108	27	1236	1440
031713	04X35	0.554	135	30.3	1663	1861
031725	04X50	0.386	168	35	2345	2547
031727	04X70	0.272	207	39.4	3196	3404
031714	04X95	0.206	250	46	4316	4888
031728	04X120	0.161	292	51.4	5435	5703
031715	04X150	0.129	335	58.8	6394	7040
031729	04X185	0.106	382	61.1	8203	9150
031730	04X240	0.0801	453	70	11008	12500

RI	Conductor resistance
I _{bl}	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000