1C XLPE/PVC (SDI)

For mains, submains and subcircuits unenclosed, enclosed in conduit, buried or in underground ducts for building and industrial plants where not subject to mechanical damage.

Standard: AS/NZS 5000.1; AS/NZS 1125
Voltage: 0.6/1kV
Conductor: Plain Annealed Copper (Class 2)
Insulation: X-90 (XLPE)
Sheath: 5V-90 Black (UV Resistant)

Core x cross-section mm^2	Conductor No.	Nominal insulation thickness mm	Nominal sheath thickness mm	Approx.overall diameter mm	Approx weight kg/km	Product code
1×10	7	0.7	1.4	8.2	141	XV1C0100
1×16	7	0.7	1.4	9.2	202	XV1C0160
1×25	7	0.9	1.4	10.7	296	XV1C0250
1×35	7	0.9	1.4	11.7	389	XV1C0350
1×50	19	1.0	1.4	13.0	509	XV1C0500
1×70	19	1.1	1.4	14.8	710	XV1C0700
1×95	19	1.1	1.5	16.9	964	XV1C0950
1×120	19	1.2	1.5	18.6	1198	XV1C1200
1×150	30	1.4	1.6	20.5	1474	XV1C1500
1×185	37	1.6	1.6	22.8	1829	XV1C1850
1×240	48	1.7	1.7	25.7	2377	XV1C2400
1×300	61	1.8	1.8	28.2	2957	XV1C3000
1×400	61	2.0	1.9	31.5	3757	XV1C4000
1×500	60	2.2	2.0	34.8	4783	XV1C5000

Conductor Size mm^2	Min. installed Bending Radius mm	Current Rating (A)				Maximum DC Resistance 20°C Ω/km	Three phase Voltage Drop (@ 50Hz & 90°C) mV/A.m
		in Air Touching	in Air Enclosed	Buried Direct	In Ground Enclosed		
1×10	65	92	98	71	93	1.83	3.86
1×16	76	86	72	117	86	1.15	2.53
1×25	89	117	97	151	113	0.727	1.57
1×35	97	144	120	180	137	0.524	1.17
1×50	108	176	143	214	163	0.387	0.865
1×70	123	224	183	262	203	0.268	0.615
1×95	145	278	220	313	244	0.193	0.459
1×120	155	325	261	356	284	0.153	0.371
1×150	173	376	295	400	320	0.124	0.316
1×185	191	435	335	452	363	0.0991	0.267
1×240	223	521	399	523	426	0.0754	0.227
1×300	234	602	469	589	491	0.0601	0.203
1×400	268	702	534	668	557	0.047	0.184
1×500	311	812	633	752	648	0.0366	0.171

(a)Based on 40°C ambient air temperature and where applicable, burial depth of 0.5m, soil temperature of 25°C and soil resistivity of 1.2°C m/W.
(b)For single phase voltage drop, multiply by 1.155
The above information is from the following sources:AS/NZ 3008.1.1,AS/NZS 1125
For current rating using other installation conditions refer to AS/NZS3008.1.1. Do not install in direct contact with polystyrene or polyurethane insulation materials

XLPE/PVC Orange Circular
2 Core+Earth

Series: XV
Standard: AS/NZS 5000.1
Voltage: 0.6/1kV
Conductor: Plain Annealed Copper(Class 2)
Insulation: X-90 XLPE (Red, Black, Green/Yellow)
Sheath: 5V-90 Orange (UV Resistant)

Core x cross-section mm²	Conductor No.		Nominal insulation thickness		Nominal sheath thickness mm	Approx. overall diamete mm	Approx. weight kg/km	Product code
	phase	earth	phase mm	earth mm				
2x1.5+1x1.5E	7	7	0.7	0.5	1.8	9.8	114	XV2C0015E
2×2.5+1x2.5E	7	7	0.7	0.6	1.8	11.1	159	XV2C0025E
2×4+1x2.5E	7	7	0.7	0.6	1.8	11.9	196	XV2C0040E
2×6+1x2.5E	7	7	0.7	0.6	1.8	12.9	242	XV2C0060E
2×10+1x4E	7	7	0.7	0.7	1.8	14.9	352	XV2C0100E
2×16+1x6E	7	7	0.7	0.7	1.8	16.9	501	XV2C0160E
2×25+1x6E	7	7	0.9	0.7	1.8	20.2	714	XV2C0250E
2×35+1x10E	7	7	0.9	0.7	1.8	22.0	948	XV2C0350E
2×50+1x16E	19	7	1.0	0.7	1.8	24.8	1268	XV2C0500E
2×70+1x25E	19	7	1.1	0.9	1.8	28.4	1788	XV2C0700E
2×95+1x25E	19	7	1.1	0.9	1.9	32.9	2376	XV2C0950E
2×120+1x35E	19	7	1.2	0.9	2.0	36.5	3002	XV2C1200E
2×150+1x50E	30	19	1.4	1.0	2.1	40.0	3723	XV2C1500E
2×185+1x70E	37	19	1.6	1.1	2.3	45.0	4764	XV2C1850E
2×240+1x95E	48	19	1.7	1.1	2.4	50.6	6261	XV2C2400E
2×300+1x120E	61	19	1.8	1.2	2.6	55.6	7848	XV2C3000E

Conductor Size mm²	Min. Bending Radius mm	Current Rating (A)				Maximum DC Resistance 20°C Ω/km	Three phase Voltage Drop (@ 50Hz & 90°C) mV/A.m
		in Air Touching	in Air Enclosed	Buried Direct	In Ground Enclosed		
1.5	76	15	14	18	18	13.6	33.0
2.5	84	22	20	25	25	7.41	18.0
4	98	29	25	33	33	4.61	11.2
6	105	37	33	42	42	3.08	7.49
10	118	51	44	55	55	1.83	4.46
16	168	84	68	110	81	1.15	2.55
25	197	110	91	140	107	0.727	1.61
35	218	135	114	170	130	0.524	1.17
50	254	170	135	205	155	0.387	0.868
70	296	215	172	250	194	0.268	0.609
95	326	265	208	300	233	0.193	0.450
120	363	310	244	345	270	0.153	0.366
150	408	350	277	385	304	0.124	0.307
185	456	405	322	435	347	0.0991	0.259
240	510	480	386	500	410	0.0754	0.216
300	564	555	-	565	464	0.0601	0.191

Note: Refer to Cable Selection in Technical Cable Guide for more information and data based on AS/NZS 3008.1.1.

XLPE/PVC Orange Circular
3 Core+Earth

Series: XV
Standard: AS/NZS 5000.1
Voltage: 0.6/1kV
Conductor: Plain Annealed Copper(Class 2)
Insulation: X-90 XLPE (Red, White, Blue, Green/Yellow)
Sheath: 5V-90 Orange (UV Resistant)

Core x cross-section mm²	Conductor No.		Nominal insulation thickness		Nominal sheath thickness mm	Approx. overall diamete mm	Approx. weight kg/km	Product code
	phase	earth	phase mm	earth mm				
3x1.5+1x1.5E	7	7	0.7	0.5	1.8	10.8	135	XV3C0015E
3×2.5+1x2.5E	7	7	0.7	0.6	1.8	12.0	191	XV3C0025E
3×4+1x2.5E	7	7	0.7	0.6	1.8	13.0	243	XV3C0040E
3×6+1x2.5E	7	7	0.7	0.6	1.8	14.1	307	XV3C0060E
3×10+1x4E	7	7	0.7	0.7	1.8	16.3	454	XV3C0100E
3×16+1x6E	7	7	0.7	0.7	1.8	18.5	656	XV3C0160E
3×25+1x6E	7	7	0.9	0.7	1.8	21.2	926	XV3C0250E
3×35+1x10E	7	7	0.9	0.7	1.8	23.7	1257	XV3C0350E
3×50+1x16E	19	7	1.0	0.7	1.8	26.9	1689	XV3C0500E
3×70+1x25E	19	7	1.1	0.9	1.9	31.3	2414	XV3C0700E
3×95+1x25E	19	7	1.1	0.9	2.0	35.0	3191	XV3C0950E
3×120+1x35E	19	7	1.2	0.9	2.1	39.0	4034	XV3C1200E
3×150+1x50E	30	19	1.4	1.0	2.3	43.3	5027	XV3C1500E
3×185+1x70E	37	19	1.6	1.1	2.5	49.0	6406	XV3C1850E
3×240+1x95E	48	19	1.7	1.1	2.6	55.4	8424	XV3C2400E
3×300+1x120E	61	19	1.8	1.2	2.8	61.1	10569	XV3C3000E

Conductor Size mm²	Min. Bending Radius mm	Current Rating (A)				Maximum DC Resistance 20°C Ω/km	Three phase Voltage Drop (@ 50Hz & 90°C) mV/A.m
		in Air Touching	in Air Enclosed	Buried Direct	In Ground Enclosed		
1.5	76	15	14	18	18	13.6	33.0
2.5	84	22	20	25	25	7.41	18.0
4	98	29	25	33	33	4.61	11.2
6	105	37	33	42	42	3.08	7.49
10	118	51	44	55	55	1.83	4.46
16	168	84	68	110	81	1.15	2.55
25	197	110	91	140	107	0.727	1.61
35	218	135	114	170	130	0.524	1.17
50	254	170	135	205	155	0.387	0.868
70	296	215	172	250	194	0.268	0.609
95	326	265	208	300	233	0.193	0.450
120	363	310	244	345	270	0.153	0.366
150	408	350	277	385	304	0.124	0.307
185	456	405	322	435	347	0.0991	0.259
240	510	480	386	500	410	0.0754	0.216
300	564	555	-	565	464	0.0601	0.191

Note: Refer to Cable Selection in Technical Cable Guide for more information and data based on AS/NZS 3008.1.1.

XLPE/PVC Orange Circular
4 Core+Earth

Series: XV
Standard: AS/NZS 5000.1
Voltage: 0.6/1kV
Conductor: Plain Annealed Copper(Class 2)
Insulation: X-90 XLPE (Red, White, Blue, Black, Green/Yellow)
Sheath: 5V-90 Orange (UV Resistant)

Core x cross-section mm²	Conductor No.		Nominal insulation thickness		Nominal sheath thickness mm	Approx. overall diamete mm	Approx. weight kg/km	Product code
	phase	earth	phase mm	earth mm				
4×1.5+1x1.5E	7	7	0.7	0.5	1.8	11.5	220	XV4C0015E
4×2.5+1x2.5E	7	7	0.7	0.6	1.8	13.0	305	XV4C0025E
4×4+1x2.5E	7	7	0.7	0.6	1.8	14.2	420	XV4C0040E
4×6+1x2.5E	7	7	0.7	0.6	1.8	15.4	528	XV4C0060E
4×10+1x4E	7	7	0.7	0.7	1.8	17.9	740	XV4C0100E
4×16+1x6E	7	7	0.7	0.7	1.8	20.5	878	XV4C0160E
4×25+1x6E	7	7	0.9	0.7	1.8	23.7	1266	XV4C0250E
4×35+1x10E	7	7	0.9	0.7	1.8	26.4	1700	XV4C0350E
4×50+1x16E	19	7	1.0	0.7	1.9	30.2	2384	XV4C0500E
4×70+1x25E	19	7	1.1	0.9	2.0	35.1	3308	XV4C0700E
4×95+1x25E	19	7	1.1	0.9	2.2	39.7	4283	XV4C0950E
4×120+1x35E	19	7	1.2	0.9	2.3	44.2	5406	XV4C1200E
4×150+1x50E	30	19	1.4	1.0	2.5	49.0	6805	XV4C1500E
4×185+1x70E	37	19	1.6	1.1	2.7	55.4	8477	XV4C1850E
4×240+1x95E	48	19	1.7	1.1	2.9	62.7	10920	XV4C2400E
4×300+1x120E	61	19	1.8	1.2	3.1	69.1	13995	XV4C3000E

Conductor Size mm²	Min. Bending Radius mm	Current Rating (A)				Maximum DC Resistance 20°C Ω/km	Three phase Voltage Drop (@ 50Hz & 90°C) mV/A.m
		in Air Touching	in Air Enclosed	Buried Direct	In Ground Enclosed		
1.5	76	15	14	18	18	13.6	33.0
2.5	84	22	20	25	25	7.41	18.0
4	98	29	25	33	33	4.61	11.2
6	105	37	33	42	42	3.08	7.49
10	118	51	44	55	55	1.83	4.46
16	168	84	68	110	81	1.15	2.55
25	197	110	91	140	107	0.727	1.61
35	218	135	114	170	130	0.524	1.17
50	254	170	135	205	155	0.387	0.868
70	296	215	172	250	194	0.268	0.609
95	326	265	208	300	233	0.193	0.450
120	363	310	244	345	270	0.153	0.366
150	408	350	277	385	304	0.124	0.307
185	456	405	322	435	347	0.0991	0.259
240	510	480	386	500	410	0.0754	0.216
300	564	555	-	565	464	0.0601	0.191

Note: Refer to Cable Selection in Technical Cable Guide for more information and data based on AS/NZS 3008.1.1.