

1 CORE CABLES



TABLE - 01
TECHNICAL DETAILS FOR JOHNSON CABLES 1.1 KV

1 CORE ALUMINIUM / COPPER CONDUCTOR XLPE INSULATED UN-ARMOURED CABLES

Ref Specification : IS 7098 Part-1
CABLE CODE : A2XY - 2XY

Technical Data

SIZE	NOMINAL INSULATION THICKNESS	NOMINAL OUTER SHEATH THICKNESS	APPROX. OVERALL DIA OF CABLE ± 2 MM	APPROX. WEIGHT OF CABLE		MAX. CONDUCTOR DC RESISTANCE at 20° C		NOMINAL CURRENT RATING			
								ALUMINIUM CONDUCTOR		COPPER CONDUCTOR	
				A2XY	2XY	ALUMINIUM	COPPER	GROUND	AIR	GROUND	AIR
mm²	mm	mm	mm	Kg/Km		Ohm/Km		AMPS			
1 C X 4	0.70	1.80	7.50	70	90	7.410	4.610	40	35	49	46
1 C X 6	0.70	1.80	8.00	80	115	4.610	3.080	49	46	61	58
1 C X 10	0.70	1.80	9.00	90	170	3.080	1.830	64	63	81	78
1 C X 16	0.70	1.80	10.00	120	230	1.910	1.150	83	80	105	107
1 C X 25	0.90	1.80	12.00	160	330	1.200	0.727	100	112	132	144
1 C X 35	0.90	1.80	13.00	200	420	0.868	0.524	120	137	157	176
1 C X 50	1.00	1.80	14.50	250	560	0.641	0.387	140	165	187	212
1 C X 70	1.10	1.80	16.50	330	755	0.443	0.268	170	209	227	269
1 C X 95	1.10	1.80	18.00	450	1020	0.320	0.193	205	256	267	331
1 C X 120	1.20	1.80	20.50	510	1255	0.253	0.153	235	305	305	385
1 C X 150	1.40	2.00	22.50	630	1555	0.206	0.124	270	345	340	435
1 C X 185	1.60	2.00	24.50	800	1900	0.164	0.0991	300	390	385	500
1 C X 240	1.70	2.00	27.00	950	2450	0.125	0.0754	350	455	440	595
1 C X 300	1.80	2.00	30.00	1150	3050	0.100	0.0601	400	525	500	680
1 C X 400	2.00	2.20	33.80	1500	3850	0.0778	0.0470	460	615	560	785

NOTE : 1. THE ABOVE DATA IS APPROXIMATE & SUBJECT TO MANUFACTURING TOLERANCE, 2. DELIVERY LENGTH TOLERANCE +/- 5 %.

TABLE - 02
TECHNICAL DETAILS FOR JOHNSON CABLES 1.1 KV

1 CORE ALUMINIUM / COPPER CONDUCTOR XLPE INSULATED ARMOURED CABLES

Ref Specification : IS 7098 Part-1
CABLE CODE : A2XFaY / 2XFaY

Technical Data

SIZE	NOMINAL INSULATION THICKNESS	NOMINAL ARMOUR ALUMINIUM STRIP	MINIMUM OUTER SHEATH THICKNESS	APPROX. OVERALL DIA OF CABLE ± 2 MM	APPROX. WEIGHT OF CABLE		MAX. CONDUCTOR DC RESISTANCE at 20° C		NOMINAL CURRENT RATING ALUMINIUM CONDUCTOR		NOMINAL CURRENT RATING COPPER CONDUCTOR	
					A2XFaY	2XFaY	ALUMINIUM	COPPER	GROUND	AIR	GROUND	AIR
mm ²	mm	mm	mm	mm	Kg/Km		Ohm/Km		AMPS			
1C X 95	1.40	4 X 0.80	1.40	20.00	570	1160	0.320	0.193	205	256	267	331
1C X 120	1.50	4 X 0.80	1.40	22.00	670	1420	0.253	0.153	235	305	305	385
1C X 150	1.70	4 X 0.80	1.40	24.00	770	1690	0.206	0.124	270	345	340	435
1C X 185	1.90	4 X 0.80	1.40	26.00	920	2050	0.164	0.0991	300	390	385	500
1C X 240	2.00	4 X 0.80	1.40	29.00	1150	2600	0.125	0.0754	350	455	440	595
1C X 300	2.10	4 X 0.80	1.56	31.50	1355	3200	0.100	0.0601	400	525	500	680
1C X 400	2.40	4 X 0.80	1.56	35.50	1730	4200	0.0778	0.0470	460	615	560	785

NOTE : 1. THE ABOVE DATA IS APPROXIMATE & SUBJECT TO MANUFACTURING TOLERANCE, 2. DELIVERY LENGTH TOLERANCE +/- 5 %.

TABLE - 03
TECHNICAL DETAILS FOR JOHNSON CABLES 1.1 KV

1 CORE ALUMINIUM / COPPER CONDUCTOR XLPE INSULATED ARMOURED CABLES

Ref Specification : IS 7098 Part-1
CABLE CODE : A2XWaY - 2XWaY

Technical Data

SIZE	NOMINAL INSULATION THICKNESS	NOMINAL DIA OF AL ARMOUR WIRE	MINIMUM OUTER SHEATH THICKNESS	APPROX. OVERALL DIA OF CABLE ± 2 MM	APPROX. WEIGHT OF CABLE		MAX. CONDUCTOR DC RESISTANCE at 20° C		NOMINAL CURRENT RATING ALUMINIUM CONDUCTOR		NOMINAL CURRENT RATING COPPER CONDUCTOR	
					A2XWaY	2XWaY	ALUMINIUM	COPPER	GROUND	AIR	GROUND	AIR
mm ²	mm	mm	mm	mm	Kg/Km		Ohm/Km		AMPS			
1C X 4	1.00	1.40	1.24	10.50	130	150	7.410	4.610	40	35	49	46
1C X 6	1.00	1.40	1.24	11.00	140	170	4.610	3.080	49	46	61	58
1C X 10	1.00	1.40	1.24	12.00	170	250	3.080	1.830	64	63	81	78
1C X 16	1.00	1.40	1.24	13.50	225	320	1.910	1.150	83	80	105	107
1C X 25	1.20	1.40	1.24	15.00	270	425	1.200	0.727	100	112	132	144
1C X 35	1.20	1.40	1.24	16.00	320	530	0.868	0.524	120	137	157	176
1C X 50	1.30	1.40	1.24	18.00	400	700	0.641	0.387	140	165	187	212
1C X 70	1.40	1.40	1.24	20.00	500	930	0.443	0.268	170	209	227	269
1C X 95	1.40	1.60	1.40	22.00	650	1250	0.320	0.193	205	256	267	331
1C X 120	1.50	1.60	1.40	24.00	750	1490	0.253	0.153	235	305	305	385
1C X 150	1.70	1.60	1.40	26.00	870	1790	0.206	0.124	270	345	340	435
1C X 185	1.90	1.60	1.40	28.00	1050	2160	0.164	0.0991	300	390	385	500
1C X 240	2.00	1.60	1.40	31.50	1250	2700	0.125	0.0754	350	455	440	595
1C X 300	2.10	1.60	1.56	34.50	1550	3350	0.100	0.0601	400	525	500	680
1C X 400	2.40	2.00	1.56	38.00	1950	4380	0.0778	0.0470	460	615	560	785

NOTE : 1. THE ABOVE DATA IS APPROXIMATE & SUBJECT TO MANUFACTURING TOLERANCE, 2. DELIVERY LENGTH TOLERANCE +/- 5 %.