

2 CORE CABLES



TABLE - 04
TECHNICAL DETAILS FOR JOHNSON CABLES 1.1 KV

2 CORE ALUMINIUM / COPPER CONDUCTOR XLPE INSULATED UNARMoured CABLES

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

Technical Data

SIZE	NOMINAL INSULATION THICKNESS	MINIMUM INNER SHEATH THICKNESS	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	
					A2XY	2XY	ALUMINIUM	COPPER	GROUND	AIR	GROUND	AIR
mm ²	mm	mm	mm	mm	Kg/Km		Ohm/Km		AMPS			
2C X 4	0.70	0.30	1.80	12.00	180	240	7.410	4.61	36	32	45	40
2C X 6	0.70	0.30	1.80	13.00	220	300	4.610	3.08	45	42	57	52
2C X 10	0.70	0.30	1.80	15.00	280	400	3.080	1.83	60	56	75	69
2C X 16	0.70	0.30	1.80	14.00	290	430	1.910	1.15	80	72	96	87
2C X 25	0.90	0.30	2.00	17.00	380	680	1.200	0.727	96	100	125	130
2C X 35	0.90	0.30	2.00	18.50	430	850	0.868	0.524	118	120	150	160
2C X 50	1.00	0.30	2.00	21.00	600	1150	0.641	0.387	145	146	175	195
2C X 70	1.10	0.30	2.00	23.00	750	1520	0.443	0.268	174	180	215	240
2C X 95	1.10	0.40	2.20	26.00	960	2050	0.320	0.193	210	230	260	300
2C X 120	1.20	0.40	2.20	28.00	1160	2450	0.253	0.153	235	260	290	335
2C X 150	1.40	0.40	2.20	31.00	1380	3050	0.206	0.124	265	305	325	385
2C X 185	1.60	0.50	2.40	34.50	1720	3750	0.164	0.0991	300	345	365	445
2C X 240	1.70	0.50	2.60	39.00	2160	4900	0.125	0.0754	340	410	416	518
2C X 300	1.80	0.60	2.80	43.00	2660	6100	0.100	0.0601	385	475	470	600
2C X 400	2.00	0.60	3.00	48.00	3300	7850	0.0778	0.0470	450	550	530	680

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

TABLE - 05
TECHNICAL DETAILS FOR JOHNSON CABLES 1.1 KV

2 CORE ALUMINIUM/COPPER CONDUCTOR XLPE INSULATED ARMoured CABLES

Ref Specification : IS 7098 Part-1
CABLE CODE : A2XFY / 2XFY

Technical Data

SIZE	NOMINAL INSULATION THICKNESS	MINIMUM INNER SHEATH THICKNESS	NOMINAL ARMOUR 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	
						A2XFY	2XFY	ALUMINIUM	COPPER	GROUND	AIR	GROUND	AIR
mm ²	mm	mm	mm	mm	mm	Kg/Km		Ohm/Km		AMPS			
2C X 25	0.90	0.30	4 X 0.80	1.40	18.00	610	915	1.200	0.727	96	100	125	130
2C X 35	0.90	0.30	4 X 0.80	1.40	19.50	700	1050	0.868	0.524	118	120	150	160
2C X 50	1.00	0.30	4 X 0.80	1.40	21.50	830	1440	0.641	0.387	145	146	175	195
2C X 70	1.10	0.30	4 X 0.80	1.56	24.50	1060	1910	0.443	0.268	174	180	215	240
2C X 95	1.10	0.40	4 X 0.80	1.56	27.00	1310	2480	0.320	0.193	210	230	260	300
2C X 120	1.20	0.40	4 X 0.80	1.56	29.50	1510	2950	0.253	0.153	235	260	290	335
2C X 150	1.40	0.40	4 X 0.80	1.72	32.00	1760	3610	0.206	0.124	265	305	325	385
2C X 185	1.60	0.50	4 X 0.80	1.72	35.00	2210	4400	0.164	0.0991	300	345	365	445
2C X 240	1.70	0.50	4 X 0.80	1.88	39.50	2610	5500	0.125	0.0754	340	410	416	518
2C X 300	1.80	0.60	4 X 0.80	2.04	43.00	3150	6700	0.100	0.0601	385	475	470	600
2C X 400	2.00	0.60	4 X 0.80	2.36	49.00	4000	8600	0.0778	0.0470	450	550	530	680

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

TABLE - 06
TECHNICAL DETAILS FOR JOHNSON CABLES 1.1 KV

2 CORE ALUMINIUM/COPPER CONDUCTOR XLPE INSULATED ARMoured CABLES

Ref Specification : IS 7098 Part-1
CABLE CODE : A2XWY / 2XWY

Technical Data

SIZE	NOMINAL INSULATION THICKNESS	MINIMUM INNER SHEATH THICKNESS	NOMINAL 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	
						A2XWY	2XWY	ALUMINIUM	COPPER	GROUND	AIR	GROUND	AIR
mm ²	mm	mm	mm	mm	mm	Kg/Km		Ohm/Km		AMPS			
2C X 4	0.70	0.30	1.40	1.24	14.00	400	480	7.410	4.610	36	32	45	40
2C X 6	0.70	0.30	1.40	1.24	15.00	470	560	4.610	3.080	45	42	57	52
2C X 10	0.70	0.30	1.40	1.24	16.00	570	710	3.080	1.830	60	56	75	69
2C X 16	0.70	0.30	1.40	1.40	16.00	590	780	1.910	1.150	80	72	96	87

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