

JOHNSON PREMIUM

3 CORE SUBMERSIBLE FLAT CABLES (DOUBLE SHEATHED)

- TYPES OF CABLES** : SUBMERSIBLE FLEXIBLE FLAT CABLE (DOUBLE SHEATHED)
- DESIGNATION** : XLPE INSULATED (RESISTANCE TO OZONE & U.V. RAYS) AND WATER TIGHT DESIGN WITH MODIFIED POLYMER TPR SHEATHED FLAT FLEXIBLE EC GRADE COPPER CABLES

CABLES DESIGN

- COPPER CONDUCTOR** : ANNEALED COPPER WITH FLEXIBLE BUNCH EC GRADE COPPER AS PER CLASS 2 OR 5 (IS 8130)

- INSULATION** : XLPE (RESISTANCE TO OZONE & U.V. RAYS) DOUBLE INSULATED.

- INNER SHEATH** : REDUCED THERMAL EXPANSION WITH MODIFIED POLYMER

- SHEATH** : WEATHERING STABILITY WITH MODIFIED TPR SHEATH

- MECHANICAL PROPERTY (INSULATION-XLPE)** : TENSILE STRENGTH 12.5 N/MM² (Min.) ELONGATION: 200% (Min.)

- MECHANICAL PROPERTY (SHEATH-TPR)** : TENSILE STRENGTH 12.5 N/MM² (Min.) ELONGATION: 150% (Min.)

- TEMP. RANGE** : (-20° C to +90° C)

- TEST VOLTAGE** : 3 KV FOR 5 MINUTE (ELECTRICAL PROPERTY)

- CORE COLOR DOUBLE INSULATED** : 3 CORE : RED, YELLOW, BLUE

- VOLUME RESISTIVITY INSULATION (ELECTRICAL PROPERTY)** :

- 1×10^{14} (Min.) Ω -cm AT 27 ° C TEMP.
- 1×10^{12} (Min.) Ω -cm AT 90 ° C TEMP.

- REF. STD** : IS 694, IS 8130, IS 7098-P-1

- RATED VOLTAGE** : 1100 V

- SHEATH COLOUR** : GREEN

- DESCRIPTION** : JOHNSON CABLES INTRODUCES " JOHNSON PREMIUM" SUBMERSIBLE CABLE WITH PERFORMING INSULATION AND SHEATH. THIS IS A FLEXIBLE FLAT CABLE WITH LOW WATER ABSORPTION RATE FOLLOWING FEATURES.

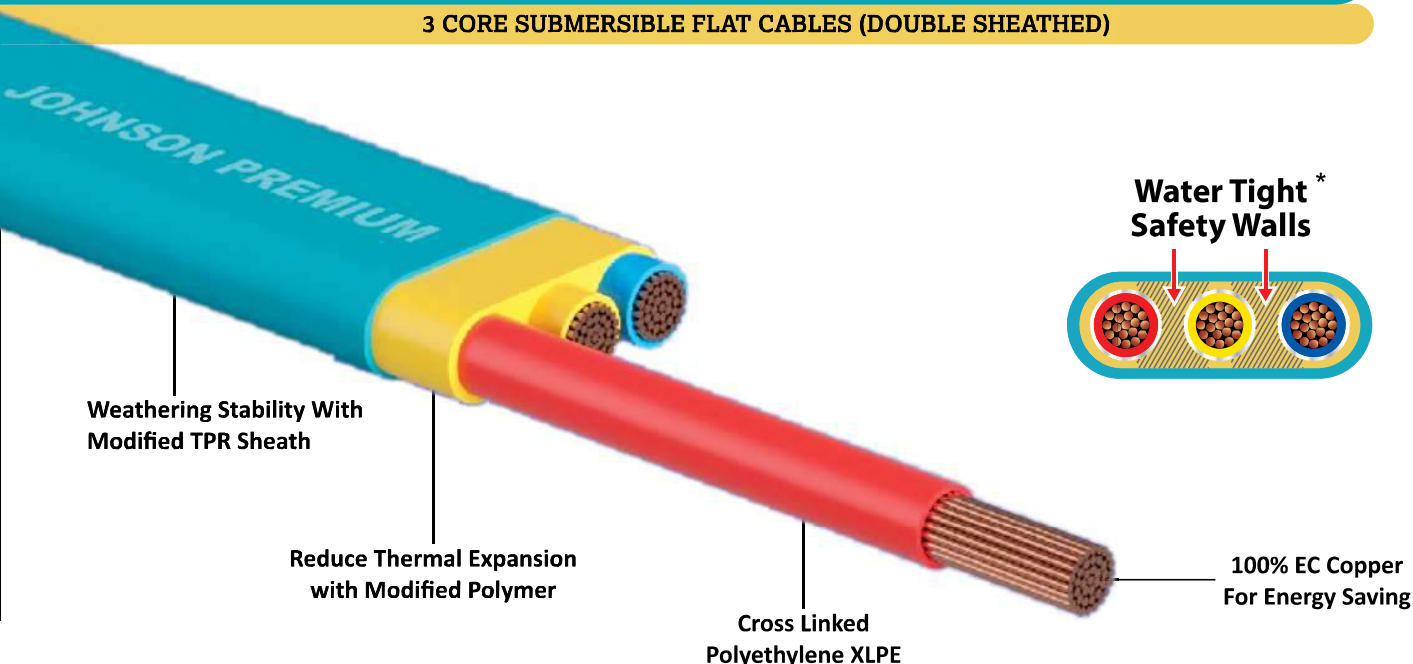
- CABLES FEATURES** :
- WATER TIGHT DESIGN WITH " RESISTANT WATER TREEING " PROPERTIES.
 - FLEXIBLE COPPER WITH DOUBLE SHEATHED
 - SHEATH RESISTANCE TO OZONE, U.V. RAYS, MOISTURE, OIL AND CHEMICALS IN SOIL.
 - REDUCED THERMAL EXPANSION AND GOOD WEATHERING STABILITY.
 - POLYMERS FOR ENHANCED ELECTRICAL PERFORMANCE.
 - HIGH DIELECTRIC VALUE INSULATION
 - VERY GOOD CURRENT CARRYING CAPACITY

- ISO CERTIFICATION** : ISO 9001:2015, CE, RoHS, ISO 14001:2015, ISO 45001:2018

- PRODUCT CERTIFICATION** : IS 694:2010, IS 7098P-1, TUV RHEINLAND CERTIFICATE No. R 60160536

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TECHNICAL DETAILS FOR JOHNSON CABLES 1.1 KV

JOHNSON PREMIUM - 3 CORE FLAT CABLES

SIZE	CABLE	CLASS OF CONDUCTOR	NOS. & DIA OF WIRE (MAX.)	NOM. INSULATION THICKNESS	NOM. SHEATH THICKNESS	APPROX OVERALL DIMENSION (MM)		MAX. D.C R @ 20° C (COPPER)	MAX. CURRENT CARRYING CAPACITY
mm ²	TYPE	CLASS	Nos./mm	mm	mm	WIDTH	HEIGHT	Ω / km	AMPS
3C X 1.5	FLAT -2X-YN	CLASS 2	22/0.3	0.70	1.00	11.30	4.90	12.1	18
3C X 2.5	FLAT -2X-YN	CLASS 2	36/0.3	0.70	1.10	13.40	5.80	7.41	22
3C X 4	FLAT -2X-YN	CLASS 5	56/0.3	0.70	1.20	15.80	6.60	4.95	31
3C X 6	FLAT -2X-YN	CLASS 5	84/0.3	0.70	1.30	18.60	7.80	3.30	38
3C X 8	FLAT -2X-YN	CLASS 5	112/0.3	0.70	1.40	21.40	8.80	2.48	44
3C X 10	FLAT -2X-YN	CLASS 5	140/0.3	0.70	1.50	23.00	9.30	1.91	50
3C X 12	FLAT -2X-YN	CLASS 5	168/0.3	0.70	1.60	25.20	10.20	1.61	57
3C X 16	FLAT -2X-YN	CLASS 5	224/0.3	0.70	1.70	28.40	11.20	1.21	65
3C X 25	FLAT -2X-YN	CLASS 5	354/0.3	0.90	2.10	35.40	14.20	0.780	100
3C X 35	FLAT -2X-YN	CLASS 5	495/0.3	0.90	2.20	38.60	15.40	0.554	120
3C X 50	FLAT -2X-YN	CLASS 5	703/0.3	1.00	2.40	45.50	17.90	0.386	150

NOTE:

- THE NUMBER OF STRAND & STRANDS DIAMETER SHALL BE SUCH THAT IT MEETS THE CONDUCTOR RESISTANCE AS PER RELEVANT STANDARD.
- THE ABOVE DATA IS INDICATIVE AND MAY BE REVISED WITHOUT PRIOR INFORMATION. JOHNSON CABLES WILL NOT BE LIABLE FOR ANY DAMAGES ARISING OUT OF IN CORRECT APPLICATION.
- TOLERANCE: UP TO 4.0 SQ MM +/- 0.5 MM. 6.0 SQ MM & 10 SQ MM +/- 1.0 MM AND ABOVE 10 SQ MM +/- 1.2 MM