LV POWER, MULTI CORE, ARMOURED CABLE

CU/XLPE/PVC/SWA/PVC SPECIFICATION: BS 5467

APPLICATION:	Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building.

CONSTRUCTION

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	Cross linked polyethylene (XLPE) to BS 7655-1.3.
Color Code*	2C: Red & Black 3C: Red, Yellow & Blue 4C: Red, Yellow, Blue & Black 5C: Red, Yellow, Blue, Black & Green (70%) / Yellow (30%)
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape.
Bedding	Extruded PVC compatible with the operating temperature of the conductor in Black color.
Armor	A single layer of galvanized steel wire armor is applied over the inner sheath.
Outer Sheath**	Extruded Flame retardant PVC Type 9 to BS 7655-4.2. The color of the sheath shall be Black.
Marking on the sheath	Example – ELECTRIC CABLE CU/XLPE/SWA/PVC 600/1000V BS 5467 NO. OF CORES X SIZE MESC YEAR LENGTH METER MARKING

Technical Data:

Operating Temperature	-15ºC to +90ºC
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5

***Other Insulation color available on request.**
****Other sheath color available on request.**

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm & +/- 3.0mm above 30mm.

TABLE-1: IEC 60332-1
CIRCULAR CONDUCTOR:

MESC MODEL NO.	NO OF CORES	SIZE (mm2)	MIN. NO. OF STRANDS	INSULATION THICKNESS (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	Max. Pulling Tension using a cable grip (Kg)
									Nom.	Min.			
7614-02C00150-W0BK8-NF*	2C	1.5	7	0.6	0.8	7.6	0.9	9.4	1.3	0.84	11.6	265	29
7614-02C00250-W0BK8-NF*	2C	2.5	7	0.7	0.8	8.8	0.9	10.6	1.4	0.92	13.0	320	36
7614-02C00400-W0BK8-NF*	2C	4	7	0.7	0.8	9.8	0.9	11.6	1.4	0.92	14.0	370	39
7614-02C00600-W0BK8-NF*	2C	6	7	0.7	0.8	11.0	0.9	12.8	1.4	0.92	15.2	445	42
7614-02C01000-W0BK8-NF*	2C	10	7	0.7	0.8	12.9	0.9	14.7	1.5	1.00	17.3	585	52
76D4-02C01600-W0BK8-NF	2C	16	7	0.7	0.8	14.2	1.25	16.7	1.5	1.00	19.3	815	59
76D4-02C02500-W0BK8-NF	2C	25	7	0.9	0.8	17.4	1.25	19.9	1.6	1.08	22.7	1105	74
76D4-02C03500-W0BK8-NF	2C	35	7	0.9	1.0	20.0	1.6	23.2	1.7	1.16	26.2	1550	92
76D4-02C05000-W0BK8-NF	2C	50	7	1.0	1.0	23.1	1.6	26.3	1.9	1.32	29.7	1950	116
76D4-02C07000-W0BK8-NF	2C	70	19	1.1	1.2	26.9	2.0	30.9	2.0	1.40	34.5	2745	143
76D4-02C09500-W0BK8-NF	2C	95	19	1.1	1.2	30.2	2.0	34.2	2.1	1.48	38.0	3385	166
76D4-02C12000-W0BK8-NF	2C	120	19	1.2	1.2	33.5	2.0	37.5	2.1	1.48	41.3	4010	181
7614-03C00150-W0BK8-NF*	3C	1.5	7	0.6	0.8	8.0	0.9	9.8	1.3	0.84	12.0	290	31
7614-03C00250-W0BK8-NF*	3C	2.5	7	0.7	0.8	9.4	0.9	11.2	1.4	0.92	13.6	360	38
7614-03C00400-W0BK8-NF*	3C	4	7	0.7	0.8	10.5	0.9	12.3	1.4	0.92	14.7	425	41
7614-03C00600-W0BK8-NF*	3C	6	7	0.7	0.8	11.8	0.9	13.6	1.4	0.92	16.0	525	45
7614-03C01000-W0BK8-NF*	3C	10	7	0.7	0.8	13.8	1.25	16.3	1.5	1.00	18.9	810	57
76D4-03C01600-W0BK8-NF	3C	16	7	0.7	0.8	15.2	1.25	17.7	1.6	1.08	20.5	1015	66
76D4-03C02500-W0BK8-NF	3C	25	7	0.9	1.0	19.0	1.6	22.2	1.7	1.16	25.2	1550	88
76D4-03C03500-W0BK8-NF	3C	35	7	0.9	1.0	21.4	1.6	24.6	1.8	1.24	27.8	1700	103
7614-04C00150-W0BK8-NF*	4C	1.5	7	0.6	0.8	8.8	0.9	10.6	1.3	0.84	12.8	330	33
7614-04C00250-W0BK8-NF*	4C	2.5	7	0.7	0.8	10.3	0.9	12.1	1.4	0.92	14.5	410	40
7614-04C00400-W0BK8-NF*	4C	4	7	0.7	0.8	11.5	0.9	13.3	1.4	0.92	15.7	505	44
7614-04C00600-W0BK8-NF*	4C	6	7	0.7	0.8	13.0	1.25	15.4	1.5	1.00	18.0	720	54
76D4-04C01000-W0BK8-NF	4C	10	7	0.7	0.8	15.2	1.25	17.7	1.5	1.00	20.3	950	62
76D4-04C01600-W0BK8-NF	4C	16	7	0.7	0.8	16.8	1.25	19.3	1.6	1.08	22.1	1225	72
7614-05C00150-W0BK8-NF-02*	5C	1.5	7	0.6	0.8	9.5	0.9	11.3	1.4	0.92	13.7	350	38
7614-05C00250-W0BK8-NF-02*	5C	2.5	7	0.7	0.8	11.2	0.9	13.0	1.4	0.92	15.4	455	43
7614-05C00400-W0BK8-NF-02*	5C	4	7	0.7	0.8	12.6	0.9	14.4	1.5	1.00	17.0	575	51
7614-05C00600-W0BK8-NF-02*	5C	6	7	0.7	0.8	14.2	1.25	16.7	1.5	1.00	19.3	825	59
7614-05C01000-W0BK8-NF-02*	5C	10	7	0.7	0.8	16.7	1.25	19.2	1.6	1.08	22.0	1125	72
76D4-05C01600-W0BK8-NF-02	5C	16	7	0.7	1.0	18.9	1.6	22.1	1.7	1.16	25.1	1600	87
76D4-05C02500-W0BK8-NF-02	5C	25	7	0.9	1.0	23.2	1.6	26.4	1.8	1.24	29.6	2225	110
76D4-05C03500-W0BK8-NF-02	5C	35	7	0.9	1.0	26.1	1.6	29.3	1.9	1.32	32.7	2825	129
76D4-05C05000-W0BK8-NF-02	5C	50	7	1.0	1.2	30.7	2.0	34.7	2.0	1.40	38.3	3890	160
76D4-05C07000-W0BK8-NF-02	5C	70	19	1.1	1.2	35.4	2.0	39.4	2.2	1.56	43.4	5150	199

*Non-Compacted conductor, all other compacted conductor

TABLE-2: IEC 60332-1
SHAPED CONDUCTOR:

MESC MODEL NO.	NO OF CORES	SIZE (mm2)	MIN. NO. OF STRANDS	INSULATION THICKNESS (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	Max. Pulling Tension using a cable grip (Kg)
									Nom.	Min.			
76F4-02C15000-W0BK8-NF	2C	150	19	1.4	1.2	27.9	2.0	31.9	2.2	1.56	35.9	4200	163
76F4-02C18500-W0BK8-NF	2C	185	37	1.6	1.4	31.3	2.5	36.3	2.4	1.72	40.7	5400	202
76F4-02C24000-W0BK8-NF	2C	240	37	1.7	1.4	34.7	2.5	39.7	2.5	1.80	44.3	6700	230
76F4-02C30000-W0BK8-NF	2C	300	37	1.8	1.6	38.4	2.5	43.4	2.6	1.88	48.2	8150	261
76F4-02C40000-W0BK8-NF	2C	400	61	2.0	1.6	43.5	2.5	48.5	2.8	2.04	53.7	10005	313
76F4-03C02500-W0BK8-NF	3C	25	7	0.9	1.0	16.5	1.6	19.7	1.7	1.16	22.7	1450	78
76F4-03C03500-W0BK8-NF	3C	35	7	0.9	1.0	18.4	1.6	21.6	1.8	1.24	24.8	1800	91
76F4-03C05000-W0BK8-NF	3C	50	7	1.0	1.0	21.2	1.6	24.4	1.8	1.24	27.6	2290	102
76F4-03C07000-W0BK8-NF	3C	70	19	1.1	1.0	24.3	1.6	27.5	1.9	1.32	30.9	3020	121
76F4-03C09500-W0BK8-NF	3C	95	19	1.1	1.2	27.6	2.0	31.6	2.1	1.48	35.4	4100	154
76F4-03C12000-W0BK8-NF	3C	120	19	1.2	1.2	30.5	2.0	34.5	2.2	1.56	38.5	4950	176
76F4-03C15000-W0BK8-NF	3C	150	19	1.4	1.4	34.4	2.5	39.4	2.3	1.64	43.6	6350	209
76F4-03C18500-W0BK8-NF	3C	185	37	1.6	1.4	38.0	2.5	43.0	2.4	1.72	47.4	7550	237
76F4-03C24000-W0BK8-NF	3C	240	37	1.7	1.4	42.3	2.5	47.3	2.6	1.88	52.1	9470	283
76F4-03C30000-W0BK8-NF	3C	300	37	1.8	1.6	46.9	2.5	51.9	2.7	1.96	56.9	11600	322
76F4-03C40000-W0BK8-NF	3C	400	61	2.0	1.6	53.3	2.5	58.3	2.9	2.12	63.7	14275	388
76F4-04C02500-W0BK8-NF	4C	25	7	0.9	1.0	19.4	1.6	22.6	1.7	1.16	25.6	1800	89
76F4-04C03500-W0BK8-NF	4C	35	7	0.9	1.0	21.8	1.6	25.0	1.8	1.24	28.2	2275	104
76F4-04C05000-W0BK8-NF	4C	50	7	1.0	1.0	25.3	1.6	28.5	1.9	1.32	31.9	2945	125
76F4-04C07000-W0BK8-NF	4C	70	19	1.1	1.2	29.5	2.0	33.5	2.1	1.48	37.3	4175	163
76F4-04C09500-W0BK8-NF	4C	95	19	1.1	1.2	33.0	2.0	37.0	2.2	1.56	41.0	5280	188
76F4-04C12000-W0BK8-NF	4C	120	19	1.2	1.4	37.0	2.5	42.0	2.3	1.64	46.2	6845	222
76F4-04C15000-W0BK8-NF	4C	150	19	1.4	1.4	41.3	2.5	46.3	2.4	1.72	50.7	8170	255
76F4-04C18500-W0BK8-NF	4C	185	37	1.6	1.4	45.7	2.5	50.7	2.6	1.88	55.5	9800	302
76F4-04C24000-W0BK8-NF	4C	240	37	1.7	1.6	51.4	2.5	56.4	2.7	1.96	61.4	12375	348
76F4-04C30000-W0BK8-NF	4C	300	37	1.8	1.6	56.6	2.5	61.6	2.9	2.12	67.0	15150	409
76F4-04C40000-W0BK8-NF	4C	400	61	2.0	1.8	64.9	3.15	71.2	3.2	2.36	77.2	19600	521