



## Multicore Flexible Braided Cables



### Single-Core Flexible Control Cables for Electrical Switch Boards

#### USP

- High Flexibility.
- Compact construction.
- Choice of superior insulation systems like PVC, FRLS and HFFR to suit specific customer requirement.

**CONDUCTOR** : Compactly bunched, electrolytic grade, annealed copper with superb flexibility according to harmonized grades HO5V-K and HO7V-K available in various sizes from 0.5 sq. mm to 300 sq. mm. Unilay conductor will be provided on special order from 1 to 4 sq. mm.

**INSULATION** : Generally available with HRPVC insulation. Choice of insulation is available against specific need.

**COLOURS** : Red, Blue, Green/Yellow, Grey & Black.

**PACKING** : 0 up to 10 sq. mm.-100 mtr. Coils o 16-300 sq.mm.- Longer lengths can be made available.

### Specifications of GXL Wire

Type of insulation	700C / 1050C Heat Resistant PVC	Flame Retardant Low Smoke (FRLS)	Halogen Free Flame Retardant (HFFR) From 1.0 to 4.0 sq.mm.
Type of insulation	Wiring of panels for use in high ambient temperatures.	Wiring in high density critical installations in public places and fire prone areas.	Wiring in high density critical installations in public places and fire prone areas and in vicinity of electronics systems.
Type of insulation	IS-694, BS 6004, IEC 60227, DIN VDE-0281-3	IEC 60332-1, BS 4066-1, IEC-60754-1, ASTMD-2843, ASTMD-2863	IEC 60332-1&3, BS 4066-1&3, IEC 60754-1&2, ASTMD-2863, BS 7211, DIN VDE-0282-9

### Physical and Electrical Properties

Cross section Area Sq. mm	Approx. AWG	Overall Dia., mm., Max.	Insulation Thickness, mm, Nom	Conductor Config. No. of wires/ max. dia	Conductor Resist. Ohm/km at 200C Max	Max. current rating, Amp	Approx. voltage drop per amp per meter, mV
0.5	22	2.6	0.6	16/.20	39	6	46.0
0.75	20	2.8	0.6	24/0.20	26	9	31.0
1.0	18	3.0	0.6	32/0.20	19.5	14	22.0
1.5	16	3.80	0.60	30/0.25	13.3	18	15.0
2.5	14	4.0	0.70	50/0.25	7.98	24	9.1
4.0	12	4.8	0.8	56/0.30	4.95	32	5.7
6.0	10	6.4	0.8	84/0.30	3.30	42	3.8
10.0	8	8.0	1.0	140/0.30	1.91	55	2.2
16.0	6	9.6	1.0	126/0.40 or 226/0.30	1.21	75	1.4
25.0	4	11.5	1.2	196/0.40	0.780	100	0.89
35.0	2	13.0	1.2	276/0.40	0.554	125	0.64
50.0	1	15.0	1.4	396/0.40	0.386	165	0.45
70.0	2/0	15.0	1.4	360/0.50	0.272	240	0.32
95.0	3/0	17.5	1.6	475/0.50	0.206	300	0.24
120	4/0	19.0	1.6	608/0.50	0.161	325	0.19
150	-	21.0	1.80	750/0.50	0.129	352	0.15
185	-	23.5	2.0	925/0.50	0.106	400	0.12
240	-	26.5	2.20	1200/0.50	0.0801	475	0.10
300	-	29.5	2.40	1500/0.50	0.0641	500	0.08