

FLEXIBLE PVC CABLE H03VV-F NYLHY

Specification: BS-6500



Application: These cables are used for wiring of switch, control, metering, relay and instrument panels of power switchgear and for internal connections in rectifier equipment, motor starters and controllers.

Construction

- **Conductor** : Annealed plain copper stranded as per class 5 of IEC-60228.
- **Insulation** : PVC Type TI-2 as per BS-7655
- **Core Identification** : Two core : Blue & Brown
: Three core : Green/Yellow, Blue & Brown
: Four core : Green/Yellow Black, Blue & Brown
- **Assembly** : Cores twisted together to make a round assembly with fillers wherever necessary.
- **Outer sheath** : PVC Type TM-2 as per BS-7655. Our standard colour is White, but any other colour can be supplied on request. Sheath is flame retardant to IEC- 60332 -1

Technical Data

- **Temperature Range** : - 25°C to + 70°C
- **Working voltage** : 300 / 300 volts. R.M.S.
- **Conductor Resistance** : As per class 5 of IEC-60228.
- **Maximum short circuit temperature** : 160°C (max. duration 5 Sec.).

Current carrying capacity: at 30°C

AREA (mm ²)	SINGLE PHASE (A)	THREE PHASE (A)
0.5	3	3
0.75	6	6

Correction factor for ambient temperature

Ambient temperature	:	35°C	40°C	45°C	50°C	55°C
Correction factor	:	0.96	0.92	0.87	0.71	0.50

Order No.	MESC CODE	Cores No	Size Sq.mm	Strand XDIA No.X mm	Insulation Thickness mm	Sheath Thich. mm	Approx. O. D mm.	Approx. Weight Kg/Km
53001	5381 -02C00050-UOWT1 -00	2	0.5	16X0.2	0.5	0.6	5.2	40
53002	5381 -02C00075-UOWT1 -00	2	0.75	24X0.2	0.5	0.6	5.7	49
53003	5381 -03C00050-UOWT1 -00	3	0.5	16X0.2	0.5	0.6	5.6	48
53004	5381 -03C00075-UOWT1 -00	3	0.75	24X0.2	0.5	0.6	6.0	60
53005	5381 -04C00050-UOWT1 -00	4	0.5	16X0.2	0.5	0.6	6.1	58
53006	5381 -04C00075-UOWT1 -00	4	0.75	24X0.2	0.5	0.6	6.6	72

Packing : Supplied in shrunk wrapped rolls of 100 Yards. 500/ 1000 Mtrs. wooden drums can be supplied on demand.

FLEXIBLE PVC CABLE

H05VV-F (70°C)

PVC/PVC (NYMHY)

H05V2V2-F (90°C)

Specification : BS-6500 & IEC-60227 -5



Application : These cables are useful for use in dry or damp locations for medium duties in domestic premises, kitchens, offices. Suitable for washing machines, refrigerators etc. Can be used for cooking and heating appliances provided that the cable does not come in contact with the hot parts.

Construction

- **Conductor** : Annealed plain copper stranded as per class 5 of IEC- 60228.
- **Insulation** : PVC Type TI-2 as per BS- 7655 (H05VV-F).PVC TYPE T13 AS per BS7655 (H05V2V2-F).
- **Core Identification** :
 - Two core : Blue & Brown.
 - Three core : Green/Yellow, Blue & Brown.
 - Four core : Green/Yellow , Black, Blue & Brown.
 - Five core : Green/Yellow , Black, Blue, Brown & Black.
- **Assembly** : Cores twisted together to make a round assembly with fillers wherever necessary.
- **Outer sheath** : PVC Type TM-2 as per BS-7655(H05VV-F) PVC TYPE TM 3 as per BS7655 (H05V2V2-F). Our standard colour is White, but any other colour can be supplied on request.Sheath is flame retardant to IEC-60332 -1.

Technical Data

- **Temperature Range** : - 25°C to + 70°C .
- **Working voltage** : 300 / 500 volts. R.M.S.
- **Conductor Resistance** : As per class 5 of IEC-60228.
- **Maximum short circuit temperature** : 160°C (max. duration 5 Sec.) .

Current carrying capacity at 30°C

AREA (mm ²)	SINGLE PHASE (A)	THREE PHASE (A)
0.50	3	3
0.75	6	6
1.0	10	10
1.5	16	16
2.5	25	20
4.0	32	25

Correction factor for ambient temperature

Ambient temperature	: 35°C	40°C	45°C	50°C	55°C
Correction factor	: 0.96	0.92	0.87	0.71	0.50



M E S C
SPECIALIZED CABLES

FLEXIBLE PVC CABLE

H05VV-F(70°C)

PVC/PVC (NYMHY)

Order No.	MESC Code	Cores No.	SIZE Sq.mm	Strands X diameter No. X mm	Insulation thickness mm	Sheath thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
54001	5481 -02C 00075-U0WT1 -00	2	0.75	24X0.2	0.6	0.8	6.5	61
54002	5481 -02C 00100-U0WT1 -00	2	1	32X0.2	0.6	0.8	6.8	70
54003	5481 -02C 00150-U0WT1 -00	2	1.5	30X0.25	0.7	0.8	7.7	91
54004	5481 -02C 00250-U0WT1 -00	2	2.5	50X0.25	0.8	1.0	9.4	139
54005	5481 -02C 00400-U0WT1 -00	2	4	56X0.3	0.8	1.1	10.7	192
54006	5481 -03C 00075-U0WT1 -00	3	0.75	24X0.2	0.6	0.8	6.9	73
54007	5481 -03C 00100-U0WT1 -00	3	1	32X0.2	0.6	0.8	7.2	85
54008	5481 -03C 00150-U0WT1 -00	3	1.5	30X0.25	0.7	0.9	8.4	114
54009	5481 -03C 00250-U0WT1 -00	3	2.5	50X0.25	0.8	1.1	10.2	175
54010	5481 -03C 00400-U0WT1 -00	3	4	56X0.3	0.8	1.2	11.6	244
54011	5481 -04C 00075-U0WT1 -00	4	0.75	24X0.2	0.6	0.9	7.7	91
54012	5481 -04C 00100-U0WT1 -00	4	1	32X0.2	0.6	0.9	8.1	106
54013	5481 -04C 00150-U0WT1 -00	4	1.5	30X0.25	0.7	1.0	9.3	142
54014	5481 -04C 00250-U0WT1 -00	4	2.5	50X0.25	0.8	1.1	11.1	211
54015	5481 -04C 00400-U0WT1 -00	4	4	56X0.3	0.8	1.2	12.6	297
54016	5481 -05C 00075-U0WT1 -00	5	0.75	24X0.2	0.6	0.9	8.4	112
54017	5481 -05C 00100-U0WT1 -00	5	1	32X0.2	0.6	0.9	8.8	131
54018	5481 -05C 00150-U0WT1 -00	5	1.5	30X0.25	0.7	1.1	10.4	181
54019	5481 -05C 00250-U0WT1 -00	5	2.5	50X0.25	0.8	1.2	12.4	268

H05V2V2-F(90°C)

Order No.	MESC Code	Cores No.	SIZE Sq.mm	Strands X diameter No. X mm	Insulation thickness mm	Sheath thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
54046	5S81 -02C 00075-U0WT1 -00	2	0.75	24X0.2	0.6	0.8	6.5	61
54047	5S81 -02C 00100-U0WT1 -00	2	1	32X0.2	0.6	0.8	6.8	70
54048	5S81 -02C 00150-U0WT1 -00	2	1.5	30X0.25	0.7	0.8	7.7	91
54049	5S81 -02C 00250-U0WT1 -00	2	2.5	50X0.25	0.8	1.0	9.4	139
54050	5S81 -03C 00075-U0WT1 -00	3	0.75	24X0.2	0.6	0.8	6.9	73
54051	5S81 -03C 00100-U0WT1 -00	3	1	32X0.2	0.6	0.8	7.2	85
54052	5S81 -03C 00150-U0WT1 -00	3	1.5	30X0.25	0.7	0.9	8.4	114
54053	5S81 -03C 00250-U0WT1 -00	3	2.5	50X0.25	0.8	1.1	10.2	175
54054	5S81 -04C 00075-U0WT1 -00	4	0.75	24X0.2	0.6	0.9	7.7	91
54055	5S81 -04C 00100-U0WT1 -00	4	1	32X0.2	0.6	0.9	8.1	106
54056	5S81 -04C 00150-U0WT1 -00	4	1.5	30X0.25	0.7	1.0	9.3	142
54057	5S81 -04C 00250-U0WT1 -00	4	2.5	50X0.25	0.8	1.1	11.1	211
54058	5S81 -04C 00075-U0WT1 -00	5	0.75	24X0.2	0.6	0.9	8.4	112
54059	5S81 -04C 00100-U0WT1 -00	5	1	32X0.2	0.6	0.9	8.8	131
54060	5S81 -04C 00150-U0WT1 -00	5	1.5	30X0.25	0.7	1.1	10.4	181
54061	5S81 -05C 00250-U0WT1 -00	5	2.5	50X0.25	0.8	1.2	12.4	268

Packing : Supplied in shrunk wrapped rolls of 100 Yards. 500 /1000 Mtrs. wooden drums can be supplied on demand.

FLEXIBLE CABLE FOR CONNECTION AND CONTROL

Specification : Adapted from VDE-0281 & VDE-0250



Application This flexible control cable is suitable for all electrical installations in dry or humid locations, under industrial conditions, but not in the open air. Applications include machine tool manufacture, power stations, heating and air conditioning installations etc.

Construction

- **Conductor** : Annealed plain copper as per class 5 of IEC-60228.
- **Insulation** : PVC insulation Type TI-2 of BS-7655.
- **Core Identification** :
 - Two core : Blue & Brown.
 - Three core : Green/Yellow, Blue & Brown.
 - Four core : Green/Yellow, Black, Blue & Brown.
 - Five core : Green/Yellow, Black, Blue, Brown & Black.
- **Assembly** : Core twisted tog ether to make a round assembly with fillers wherever necessary.
- **Outer Sheath** : PVC TypeTM-2 of BS-6746 coloured White. Other sheath colours can be supplied on request.

Technical Data

- **Temperature Range** : - 25°C to +70°C.
- **Working voltage** : 450 / 750 volts. R.M.S.
- **Conductor Resistance** : As per class 5 of IEC-60228.
- **Maximum short circuit temperature** : 160°C (max. duration5 Sec).
- **Minimum bending radius** : 15 X Cable Ø.

Order No.	MESC CODE	CoresXSize NoXmm	Approx O.D. mm	Approx Weight Kg/Km.
54005	5481 -02C 00400-U0WT1 -00	2X4	10.7	192
54021	5481-02C 00600-U0WT1-00	2X6	12.0	257
54022	5481-02C 01000-U0WT1-00	2X10	14.7	402
54023	5481-02C 01600-U0WT1-00	2X16	17.5	589
54024	5481-02C 02500-U0WT1-00	2X 25	21.4	896
54025	5481-02C 03500-U0WT1-00	2X 35	24.4	1204
54010	5481 -03C 00400-U0WT1 -00	3X 4	24.4	244
54026	5481-03C 00600-U0WT1-00	3X6	12.8	322
54027	5481 -03C 01000-U0WT1- 00	3X10	16.4	534
54028	5481-03C 01600-U0WT1-00	3X16	19.3	781
54029	5481-03C 02500-U0WT1-00	3X25	22.8	1148
54030	5481-03C 03500-U0WT1-00	3X35	26.0	1550
54031	5481-03C 05000-U0WT8-00	3X50	30.7	2191
54032	5481-03C 07000-U0WT8-00	3X70	35.0	3058
54033	5481- 03C 09500-U0WT8- 00	3X95	40.1	4019

Order No.	MESC CODE	CoresXSize NoXmm	Approx O.D. mm	Approx Weight Kg/Km.
54015	5411 -04C 00400-U0WT1	4X4	12.6	297
54034	5411-04C 00600-U0WT1	4X6	14.0	396
54035	5411-04C 01000-U0WT1	4X10	17.9	657
54036	5411-04C 01600-U0WT1	4X16	21.0	965
54037	5411-04C 02500-U0WT1	4X25	25.6	1465
54038	5411-04C 03500-U0WT8	4X35	28.5	1932
54039	5411 -04C 05000-U0WT8	4X50	33.7	2734
54040	5411-04C 07000-U0WT8	4X70	39.1	3896
54020	5411 -05C 00400-U0WT1	5X4	14.3	3896
54041	5411-05C 00600-U0WT1	5X6	15.4	363
54042	5411-05C 01000-U0WT1	5X10	20.3	818
54043	5411-05C 01600-U0WT1	5X16	23.1	1158
54044	5411-05C 02500-U0WT8	5X25	28.1	1761
54045	5411- 05C 03500-U0WT8	5X35	32.0	2378

Packing: 100 Yards coils. For wooden drums of 5001000/ M. length replace "1" at the end of the code by "8".
 100Yards coils("1 " at the end of the code).
 500 /1000 Mtr wooden drum ("8" at the end of the code) .

H05VV5-F CONNECTION AND CONTROL CABLE HD 21.13 S1



Application : These cables are recommended for all electrical installations in dry and humid locations. These cables are specially suitable for control purposes in machine tool manufacturing, production lines, industrial plants, air conditioning installations and steel plants.

Construction		Technical Data	
Conductor	: Plain copper bunched as per class 5 of HD 383/IEC-60228.	Specification	: HD 21.13 S1
Insulation	: PVC type TI 2 as per BS-7655/HD 21.1S2. Black cores with white numbers. Cables with three or more cores shall have one core coloured Green/Yellow. The number of cores indicated in the tables included the Green/ Yellow core.	Temperature range	
		Stationary	: - 30°C to + 80°C
		Flexing	: - 5°C to + 70°C
Assembly	: The cores are twisted together, if necessary in several concentric layers. The assembly is covered with a polyester binder if necessary.	Working voltage	: 300/500 Volts
Outer sheath	: Oil resistant PVC type TM5 as per BS-7655/HD 21.1S2. Flame retardant to IEC-60332- 1.	Minimum bending radius	: 15 X cable diameter
		Conductor resistance	: as per class- 5 of HD 383/IEC 60228.
		Test voltage	: 2000 V. for 5 Minutes.



MES C
SPECIALIZED CABLES

H05VV5-F CONNECTION AND CONTROL CABLE HD 21.13S1

SIZE sq.mm	Order No.	MES C Code	No. of Cores	Strands X diameter No. X mm	Insulation thickness mm	Sheath thickness mm	Approx O. D. mm	Approx Weight Kg/Km
0.5	55001	5581 -02C00050-U0BK8 -00	2	16 X 0.2	0.6	0.7	6.0	50
	55002	5581 -03C00050-U0BK8 -00	3	16 X 0.2	0.6	0.7	6.3	59
	55003	5581 -04C00050-U0BK8 -00	4	16 X 0.2	0.6	0.8	7.0	73
	55004	5581 -05C00050-U0BK8 -00	5	16 X 0.2	0.6	0.8	7.7	85
	55005	5581 -06C00050-U0BK8 -00	6	16 X 0.2	0.6	0.9	8.5	102
	55006	5581 -07C00050-U0BK8 -00	7	16 X 0.2	0.6	0.9	9.5	118
	55007	5581 -08C00050-U0BK8 -00	8	16 X 0.2	0.6	1.0	10.5	143
	55008	5581 -10C00050-U0BK8 -00	10	16 X 0.2	0.6	1.0	10.9	160
	55009	5581 -12C00050-U0BK8 -00	12	16 X 0.2	0.6	1.1	11.5	186
	55010	5581 -14C00050-U0BK8 -00	14	16 X 0.2	0.6	1.1	12.0	210
	55011	5581 -16C00050-U0BK8 -00	16	16 X 0.2	0.6	1.2	12.8	240
	55012	5581 -18C00050-U0BK8 -00	18	16 X 0.2	0.6	1.2	13.5	264
	55013	5581 -24C00050-U0BK8 -00	24	16 X 0.2	0.6	1.4	16.1	353
	55014	5581 -27C00050-U0BK8 -00	27	16 X 0.2	0.6	1.4	16.4	385
	55015	5581 -30C00050-U0BK8 -00	30	16 X 0.2	0.6	1.4	17.0	419
	55016	5581 -36C00050-U0BK8 -00	36	16 X 0.2	0.6	1.5	18.4	497
	55017	5581 -48C00050-U0BK8 -00	48	16 X 0.2	0.6	1.7	21.4	655
	55018	5581 -60C00050-U0BK8 -00	60	16 X 0.2	0.6	1.8	23.4	800

SIZE sq.mm	Order No.	MES C Code	No. of Cores	Strands X diameter No. X mm	Insulation thickness mm	Sheath thickness mm	Approx O. D. mm	Approx Weight Kg/Km
0.75	55019	5581 02C00075-U0BK8 -00	2	24 X 0.2	0.6	0.8	6.6	63
	55020	5581 -03C00075-U0BK8 -00	3	24 X 0.2	0.6	0.8	7.0	74
	55021	5581 -04C00075-U0BK8 -00	4	24 X 0.2	0.6	0.8	7.6	89
	55022	5581 -05C00075-U0BK8 -00	5	24 X 0.2	0.6	0.9	8.4	109
	55023	5581 -06C00075-U0BK8 -00	6	24 X 0.2	0.6	0.9	9.2	125
	55024	5581 -07C00075-U0BK8 -00	7	24 X 0.2	0.6	1.0	10.4	149
	55025	5581 -08C00075-U0BK8 -00	8	24 X 0.2	0.6	1.1	11.5	181
	55026	5581 -10C00075-U0BK8 -00	10	24 X 0.2	0.6	1.1	11.9	203
	55027	5581 -12C00075-U0BK8 -00	12	24 X 0.2	0.6	1.1	12.3	230
	55028	5581 -14C00075-U0BK8 -00	14	24 X 0.2	0.6	1.2	13.1	267
	55029	5581 -16C00075-U0BK8 -00	16	24 X 0.2	0.6	1.2	13.8	298
	55030	5581 -18C00075-U0BK8 -00	18	24 X 0.2	0.6	1.3	14.7	336
	55031	5581 -24C00075-U0BK8 -00	24	24 X 0.2	0.6	1.5	17.5	447
	55032	5581 -27C00075-U0BK8 -00	27	24 X 0.2	0.6	1.5	17.9	490
	55033	5581 -30C00075-U0BK8 -00	30	24 X 0.2	0.6	1.5	18.5	534
	55034	5581 -36C00075-U0BK8 -00	36	24 X 0.2	0.6	1.6	20.1	633
	55035	5581 -48C00075-U0BK8 -00	48	24 X 0.2	0.6	1.8	23.3	833
	55036	5581 -60C00075-U0BK8 -00	60	24 X 0.2	0.6	2.0	25.7	1031

SIZE sq.mm	Order No.	MES C Code	No. of Cores	Strands X diameter No. X mm	Insulation thickness mm	Sheath thickness mm	Approx O. D. mm	Approx Weight Kg/Km
1.0	55037	5581 02C00100-U0BK8 -00	2	32 X 0.2	0.6	0.8	6.9	72
	55038	5581 -03C00100-U0BK8 -00	3	32 X 0.2	0.6	0.8	7.3	87
	55039	5581 -04C00100-U0BK8 -00	4	32 X 0.2	0.6	0.8	8.0	104
	55040	5581 -05C00100-U0BK8 -00	5	32 X 0.2	0.6	0.9	8.9	127
	55041	5581 -06C00100-U0BK8 -00	6	32 X 0.2	0.6	1.0	9.9	151
	55042	5581 -07C00100-U0BK8 -00	7	32 X 0.2	0.6	1.0	11.0	175
	55043	5581 -08C00100-U0BK8 -00	8	32 X 0.2	0.6	1.1	12.1	211
	55044	5581 -10C00100-U0BK8 -00	10	32 X 0.2	0.6	1.2	12.8	245
	55045	5581 -12C00100-U0BK8 -00	12	32 X 0.2	0.6	1.2	13.3	279
	55046	5581 -14C00100-U0BK8 -00	14	32 X 0.2	0.6	1.2	13.9	316
	55047	5581 -16C00100-U0BK8 -00	16	32 X 0.2	0.6	1.3	14.8	360
	55048	5581 -18C00100-U0BK8 -00	18	32 X 0.2	0.6	1.3	15.6	398
	55049	5581 -24C00100-U0BK8 -00	24	32 X 0.2	0.6	1.5	18.6	530
	55050	5581 -27C00100-U0BK8 -00	27	32 X 0.2	0.6	1.5	19.0	581
	55051	5581 -30C00100-U0BK8 -00	30	32 X 0.2	0.6	1.6	19.8	644
	55052	5581 -36C00100-U0BK8 -00	36	32 X 0.2	0.6	1.7	21.5	764
	55053	5581 -48C00100-U0BK8 -00	48	32 X 0.2	0.6	1.9	24.9	1004
	55054	5581 -60C00100-U0BK8 -00	60	32 X 0.2	0.6	2.1	27.5	1243



M E S C
SPECIALIZED CABLES

H05VV5-F CONNECTION AND CONTROL CABLE HD 21.13S1

SIZE sq.mm	Order No.	MESC Code	No. of Cores	Strands X diameter No. X mm	Insulation thickness mm	Sheath thickness mm	Approx O. D. mm	Approx Weight Kg/Km
1.5	55055	5581-02C00150-U0BK8-00	2	30 X 0.25	0.7	0.8	7.9	96
	55056	5581-03C00150-U0BK8-00	3	30 X 0.25	0.7	0.9	8.6	120
	55057	5581-04C00150-U0BK8-00	4	30 X 0.25	0.7	0.9	9.3	145
	55058	5581-05C00150-U0BK8-00	5	30 X 0.25	0.7	1.0	10.4	177
	55059	5581-06C00150-U0BK8-00	6	30 X 0.25	0.7	1.1	11.5	210
	55060	5581-07C00150-U0BK8-00	7	30 X 0.25	0.7	1.2	13.1	249
	55061	5581-08C00150-U0BK8-00	8	30 X 0.25	0.7	1.3	14.3	299
	55062	5581-10C00150-U0BK8-00	10	30 X 0.25	0.7	1.3	15.0	339
	55063	5581-12C00150-U0BK8-00	12	30 X 0.25	0.7	1.3	15.4	387
	55064	5581-14C00150-U0BK8-00	14	30 X 0.25	0.7	1.4	16.4	447
	55065	5581-16C00150-U0BK8-00	16	30 X 0.25	0.7	1.5	17.5	509
	55066	5581-18C00150-U0BK8-00	18	30 X 0.25	0.7	1.5	18.4	563
	55067	5581-24C00150-U0BK8-00	24	30 X 0.25	0.7	1.7	21.8	746
	55068	5581-27C00150-U0BK8-00	27	30 X 0.25	0.7	1.8	22.5	830
	55069	5581-30C00150-U0BK8-00	30	30 X 0.25	0.7	1.8	23.3	906
	55070	5581-36C00150-U0BK8-00	36	30 X 0.25	0.7	2.0	25.5	1086
	55071	5581-48C00150-U0BK8-00	48	30 X 0.25	0.7	2.2	29.4	1424
55072	5581-60C00150-U0BK8-00	60	30 X 0.25	0.7	2.4	32.3	1757	

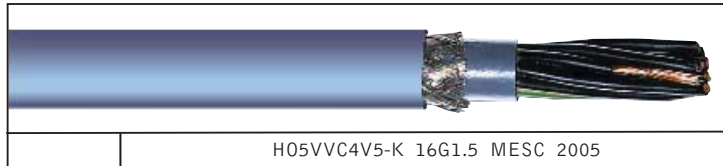
SIZE sq.mm	Order No.	MESC Code	No. of Cores	Strands X diameter No. X mm	Insulation thickness mm	Sheath thickness mm	Approx O. D. mm	Approx Weight Kg/Km
2.5	55073	5581-02C00250-U0BK8-00	2	50 X 0.25	0.8	0.9	9.4	142
	55074	5581-03C00250-U0BK8-00	3	50 X 0.25	0.8	1.0	10.2	179
	55075	5581-04C00250-U0BK8-00	4	50 X 0.25	0.8	1.1	11.3	222
	55076	5581-05C00250-U0BK8-00	5	50 X 0.25	0.8	1.1	12.4	264
	55077	5581-06C00250-U0BK8-00	6	50 X 0.25	0.8	1.2	13.7	313
	55078	5581-07C00250-U0BK8-00	7	50 X 0.25	0.8	1.3	15.6	370
	55079	5581-08C00250-U0BK8-00	8	50 X 0.25	0.8	1.4	17.1	444
	55080	5581-10C00250-U0BK8-00	10	50 X 0.25	0.8	1.5	18.0	514
	55081	5581-12C00250-U0BK8-00	12	50 X 0.25	0.8	1.5	18.6	589
	55082	5581-14C00250-U0BK8-00	14	50 X 0.25	0.8	1.6	19.7	679
	55083	5581-16C00250-U0BK8-00	16	50 X 0.25	0.8	1.7	21.0	772
	55084	5581-18C00250-U0BK8-00	18	50 X 0.25	0.8	1.8	22.3	867
	55085	5581-24C00250-U0BK8-00	24	50 X 0.25	0.8	2.0	26.4	1143
	55086	5581-27C00250-U0BK8-00	27	50 X 0.25	0.8	2.1	27.2	1271
	55087	5581-30C00250-U0BK8-00	30	50 X 0.25	0.8	2.1	28.1	1390
	55088	5581-36C00250-U0BK8-00	36	50 X 0.25	0.8	2.3	30.7	1661
	55089	5581-48C00250-U0BK8-00	48	50 X 0.25	0.8	2.4	35.2	2159
55090	5581-60C00250-U0BK8-00	60	50 X 0.25	0.8	2.4	38.9	2629	

Packing : Wooden Drums of 500/1000 Metres.

H05VVC4V5-K CONNECTION AND CONTROL CABLE

HD 21.13S1

BS 6004



Application : These cables are recommended for all electrical installations in dry and humid locations. These cables are specially suitable for control purposes in machine tool manufacturing, conveyor and assembly lines subject to medium mechanical stresses for fixed or flexible installation.

Construction	Technical Data
<p>Conductor : Plain copper bunched as per class 5 of HD 383/IEC-60228.</p> <p>*Insulation : PVC type TI 2 as per BS-7655/ HD 21.1S2. Black cores with white numbers. Cables with three or more cores shall have one coloured green / yellow. The number of cores indicated in the tables includes the green / yellow cores.</p> <p>Assembly : The cores are twisted together, if necessary in several concentric layers. The assembly is covered with a polyester binder if necessary.</p> <p>Inner sheath : PVC type TM5 as per BS-7655/ HD21.1S2</p> <p>Screening : Braiding of plain copper wire with 85% coverage.</p> <p>Outer sheath : Grey coloured Oil resistant PVC Type TM5 as per BS-7655/ HD21.1S2, Flame retardant to IEC-60332 -1.</p>	<p>Specification : HD 21.13 S1</p> <p>Temperature range Stationary : - 30°C to + 80°C Flexing : - 5°C to +70°C</p> <p>Working voltage : 300500/ Volts</p> <p>Minimum bending radius. : 15 X cable diameter.</p> <p>Conductor resistance : as per class-5 of HD 383/IEC 60228.</p> <p>Test voltage : 2000 V. for 5 Minutes.</p>

* Cable having only black cores with white number shall have "C" instead of "G" in the size denomination of printing text.



M E S C
SPECIALIZED CABLES

H05VVC4V5-K CONNECTION AND CONTROL CABLE

HD 21.13S1

BS 6004

SIZE sq.mm	Order No.	MESC Code	No. of Cores	Strands X diameter No. X mm	Insulation thickness mm	Sheath thickness mm	Approx O. D. mm	Approx Weight Kg/Km
0.5	59001	5981-02C 00050-U1GY8-00	2	16 X 0.2	0.6	0.9	6.8	117
	59002	5981-03C 00050-U1GY8-00	3	16 X 0.2	0.6	0.9	9.1	130
	59003	5981-04C 00050-U1GY8-00	4	16 X 0.2	0.6	0.9	9.7	143
	59004	5981-05C 00050-U1GY8-00	5	16 X 0.2	0.6	1.0	10.5	169
	59005	5981-06C 00050-U1GY8-00	6	16 X 0.2	0.6	1.1	11.2	185
	59006	5981-07C 00050-U1GY8-00	7	16 X 0.2	0.6	1.1	12.4	215
	59007	5981-08C 00050-U1GY8-00	8	16 X 0.2	0.6	1.2	12.5	230
	59008	5981-10C 00050-U1GY8-00	10	16 X 0.2	0.6	1.3	13.9	275
	59009	5981-12C 00050-U1GY8-00	12	16 X 0.2	0.6	1.3	14.7	321
	59010	5981-14C 00050-U1GY8-00	14	16 X 0.2	0.6	1.3	15.1	348
	59011	5981-16C 00050-U1GY8-00	16	16 X 0.2	0.6	1.3	15.9	383
	59012	5981-18C 00050-U1GY8-00	18	16 X 0.2	0.6	1.3	16.5	412
	59013	5981-24C 00050-U1GY8-00	24	16 X 0.2	0.6	1.6	19.3	535
	59014	5981-27C 00050-U1GY8-00	27	16 X 0.2	0.6	1.6	19.6	571
	59015	5981-30C 00050-U1GY8-00	30	16 X 0.2	0.6	1.6	20.3	619
	59016	5981-36C 00050-U1GY8-00	36	16 X 0.2	0.6	1.7	21.8	715
	59017	5981-48C 00050-U1GY8-00	48	16 X 0.2	0.6	1.9	25.0	933

SIZE sq.mm	Order No.	MESC Code	No. of Cores	Strands X diameter No. X mm	Insulation thickness mm	Sheath thickness mm	Approx O. D. mm	Approx Weight Kg/Km
0.75	59018	5981-02C 00075-U1GY8-00	2	24 X 0.2	0.6	0.9	9.2	131
	59019	5981-03C 00075-U1GY8-00	3	24 X 0.2	0.6	0.9	9.6	147
	59020	5981-04C 00075-U1GY8-00	4	24 X 0.2	0.6	1.0	10.4	169
	59021	5981-05C 00075-U1GY8-00	5	24 X 0.2	0.6	1.0	11.1	194
	59022	5981-06C 00075-U1GY8-00	6	24 X 0.2	0.6	1.1	12.0	219
	59023	5981-07C 00075-U1GY8-00	7	24 X 0.2	0.6	1.2	13.3	255
	59024	5981-08C 00075-U1GY8-00	8	24 X 0.2	0.6	1.2	13.3	271
	59025	5981-10C 00075-U1GY8-00	10	24 X 0.2	0.6	1.3	15.1	341
	59026	5981-12C 00075-U1GY8-00	12	24 X 0.2	0.6	1.3	15.5	374
	59027	5981-14C 00075-U1GY8-00	14	24 X 0.2	0.6	1.4	16.2	416
	59028	5981-16C 00075-U1GY8-00	16	24 X 0.2	0.6	1.4	17.1	460
	59029	5981-18C 00075-U1GY8-00	18	24 X 0.2	0.6	1.5	17.9	505
	59030	5981-24C 00075-U1GY8-00	24	24 X 0.2	0.6	1.7	20.8	647
	59031	5981-27C 00075-U1GY8-00	27	24 X 0.2	0.6	1.7	21.3	701
	59032	5981-30C 00075-U1GY8-00	30	24 X 0.2	0.6	1.7	21.9	753
	59033	5981-36C 00075-U1GY8-00	36	24 X 0.2	0.6	1.8	23.5	868
	59034	5981-48C 00075-U1GY8-00	48	24 X 0.2	0.6	2.1	27.3	1160

SIZE sq.mm	Order No.	MESC Code	No. of Cores	Strands X diameter No. X mm	Insulation thickness mm	Sheath thickness mm	Approx O. D. mm	Approx Weight Kg/Km
1.0	59035	5981-02C 00100-U1GY 8-00	2	32 X 0.2	0.6	0.9	9.6	144
	59036	5981-03C 00100-U1GY 8-00	3	32 X 0.2	0.6	1.0	10.2	167
	59037	5981-04C 00100-U1GY 8-00	4	32 X 0.2	0.6	1.0	10.8	188
	59038	5981-05C 00100-U1GY 8-00	5	32 X 0.2	0.6	1.1	11.8	223
	59039	5981-06C 00100-U1GY 8-00	6	32 X 0.2	0.6	1.1	12.5	246
	59040	5981-07C 00100-U1GY 8-00	7	32 X 0.2	0.6	1.2	14.1	293
	59041	5981-08C 00100-U1GY 8-00	8	32 X 0.2	0.6	1.2	14.0	308
	59042	5981-10C 00100-U1GY 8-00	10	32 X 0.2	0.6	1.3	15.9	387
	59043	5981-12C 00100-U1GY 8-00	12	32 X 0.2	0.6	1.4	16.5	432
	59044	5981-14C 00100-U1GY 8-00	14	32 X 0.2	0.6	1.4	17.1	476
	59045	5981-16C 00100-U1GY 8-00	16	32 X 0.2	0.6	1.5	18.0	528
	59046	5981-18C 00100-U1GY 8-00	18	32 X 0.2	0.6	1.5	18.8	576
	59047	5981-24C 00100-U1GY 8-00	24	32 X 0.2	0.6	1.7	21.9	747
	59048	5981-27C 00100-U1GY 8-00	27	32 X 0.2	0.6	1.7	22.4	805
	59049	5981-30C 00100-U1GY 8-00	30	32 X 0.2	0.6	1.8	23.2	875
	59050	5981-36C 00100-U1GY 8-00	36	32 X 0.2	0.6	1.9	24.9	1015
	59051	5981-48C 00100-U1GY 8-00	48	32 X 0.2	0.6	2.1	28.7	1340



MES C
SPECIALIZED CABLES

H05VVC4V5-K CONNECTION AND CONTROL CABLE

HD 21.13S1

BS 6004

SIZE sq.mm	Order No.	MESC Code	No. of Cores	Strands X diameter No. X mm	Insulation thickness mm	Sheath thickness mm	Approx O. D. mm	Approx. weight Kg/Km
1.5	59052	5981-02C00150-U1GY8-00	2	30 X 0.25	0.7	1.0	10.7	181
	59053	5981-03C00150-U1GY8-00	3	30 X 0.25	0.7	1.0	11.2	207
	59054	5981-04C00150-U1GY8-00	4	30 X 0.25	0.7	1.1	12.2	240
	59055	5981-05C00150-U1GY8-00	5	30 X 0.25	0.7	1.2	13.4	294
	59056	5981-06C00150-U1GY8-00	6	30 X 0.25	0.7	1.2	14.4	325
	59057	5981-07C00150-U1GY8-00	7	30 X 0.25	0.7	1.3	16.1	393
	59058	5981-08C00150-U1GY8-00	8	30 X 0.25	0.7	1.4	16.2	422
	59059	5981-10C00150-U1GY8-00	10	30 X 0.25	0.7	1.5	18.2	511
	59060	5981-12C00150-U1GY8-00	12	30 X 0.25	0.7	1.5	18.6	563
	59061	5981-14C00150-U1GY8-00	14	30 X 0.25	0.7	1.6	19.7	636
	59062	5981-16C00150-U1GY8-00	16	30 X 0.25	0.7	1.7	20.7	707
	59063	5981-18C00150-U1GY8-00	18	30 X 0.25	0.7	1.7	21.6	769
	59064	5981-24C00150-U1GY8-00	24	30 X 0.25	0.7	2.0	25.3	1006
	59065	5981-27C00150-U1GY8-00	27	30 X 0.25	0.7	2.0	25.9	1091
	59066	5981-30C00150-U1GY8-00	30	30 X 0.25	0.7	2.1	26.9	1198
	59067	5981-36C00150-U1GY8-00	36	30 X 0.25	0.7	2.2	29.3	1427
	59068	5981-48C00150-U1GY8-00	48	30 X 0.25	0.7	2.4	33.4	1831

SIZE sq.mm	Order No.	MESC Code	No. of Cores	Strands X diameter No. X mm	Insulation thickness mm	Sheath thickness mm	Approx O. D. mm	Approx. weight Kg/Km
2.5	59069	5981-02C00250-U1GY8-00	2	50 X 0.25	0.8	1.1	12.2	242
	59070	5981-03C00250-U1GY8-00	3	50 X 0.25	0.8	1.1	12.8	280
	59071	5981-04C00250-U1GY8-00	4	50 X 0.25	0.8	1.2	14.2	335
	59072	5981-05C00250-U1GY8-00	5	50 X 0.25	0.8	1.3	15.6	417
	59073	5981-06C00250-U1GY8-00	6	50 X 0.25	0.8	1.4	16.9	471
	59074	5981-07C00250-U1GY8-00	7	50 X 0.25	0.8	1.5	18.8	547
	59075	5981-08C00250-U1GY8-00	8	50 X 0.25	0.8	1.5	18.9	593
	59076	5981-10C00250-U1GY8-00	10	50 X 0.25	0.8	1.7	21.3	723
	59077	5981-12C00250-U1GY8-00	12	50 X 0.25	0.8	1.7	22.0	808
	59078	5981-14C00250-U1GY8-00	14	50 X 0.25	0.8	1.8	23.1	911
	59079	5981-16C00250-U1GY8-00	16	50 X 0.25	0.8	1.9	24.4	1018
	59080	5981-18C00250-U1GY8-00	18	50 X 0.25	0.8	2.0	25.7	1125
	59081	5981-24C00250-U1GY8-00	24	50 X 0.25	0.8	2.3	30.4	1509
	59082	5981-27C00250-U1GY8-00	27	50 X 0.25	0.8	2.3	31.0	1635
	59083	5981-30C00250-U1GY8-00	30	50 X 0.25	0.8	2.4	32.2	1785
	59084	5981-36C00250-U1GY8-00	36	50 X 0.25	0.8	2.4	34.5	2069

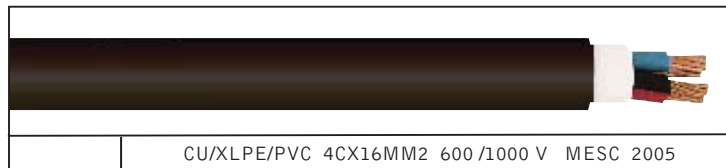
Packing : Wooden drums of 500/1000 Metres.

0.6 /1 KV XLPE INSULATED CABLES

IEC - 60502- 1

BS - 5467

Specification : IEC 60502 -1, BS-5467



Application : Can be used indoors or outdoors in cable ducts, cable trays, conduits or underground in power and switching stations, local distribution systems, industrial plants and commercial buildings.

Construction

- **Conductor** : Annealed plain copper conductor solid as per class 1 and stranded as per class 2 of IEC-60228.
- **Insulation** : Solid extruded XLPE as per IEC-60502- 1.
- **Core colours** :
 - Single core : Black
 - 2 Core : Red & Black
 - 3 Core : Red, Yellow & Blue
 - 4 Core : Red, Yellow, Blue & Black
 - 5 Core & above : Black cores with Number printing.
- **Inner covering** : Extruded PVC compatible with the operating temperature of the conductor. This inner covering is applicable to cables having conductors of 16mm² and above.
- **Outer Sheath** : Extruded PVC Type ST-2 as per IEC-60502 -1, passes flame retardance test as per IEC-60332- 1. Also passes flame test as per IEC-60332 -3 Cat C.

Technical Data

- **Conductor resistance** : As per class 1 & 2 of IEC-60228.
- **Working voltage** : 600 / 1000 Volts.
- **Test Voltage** : 3.5 kV. RMS or 8.4 kV. DC for 5 minutes
- **Temperature** : -25°C to +90°C
- **Bending Radius** : Upto 25mm O.D.- 4X Cable Ø
Above 25 mm O.D.-6X Cable Ø
- **Maximum short circuit temperature** : 250°C (5 Seconds Max.)
- **For current ratings of these cables** : Refer to Technical Section of the catalogue.