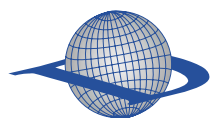


HITUF[®]

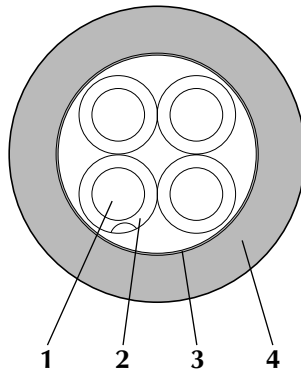


Power
and
Control
Cable



Draka UK
Industrial Cables

HITUF[®] Multicore Wiring Cab



Construction

- 1 Plain annealed copper wire conductors to BS 6360.
 - 2 XLPE insulation to BS 7655.
 - 3 PVC inner sheath to BS 7655.
 - 4 Special hard grade HITUF[®] PVC outer sheath.
- Each cable contains a protective earth conductor equal in size to the phase conductor.
- Cores are colour coded in accordance with BS 5467 with the additional earth core coloured Green/Yellow. (see identification table).

Application

HITUF[®] cables can be utilised in all types of wiring installations with the majority of boxes, switchgear, fittings and couplings currently available.

HITUF[®] cables are suitable for use in arduous conditions without the need for additional protection.

HITUF[®] cables are suitable for:- housing projects, office blocks, schools, water works, industrial plants, flood lighting, gantry wiring, rail & road transport depots, supermarkets & farm buildings.

HITUF[®] cables will not immediately ignite under extreme applied heat and also meet the requirements of BS 4066: Part 1 for flame retardance.

HITUF[®] cables can be used for installations within Zone 1 and Zone 2 potentially explosive atmospheres as defined in BS 5345: Part 2. HITUF[®] is accepted by the NICEIC for installations complying with the current IEE wiring regulations.

Installations

HITUF[®] cables were specified for the Channel Tunnel Project, Avon Bridge, Northern Ireland Railways and various high-rise council projects requiring a high resistant sheath.

Technical Data

Maximum conductor temp: + 70°C.

Minimum ambient temp: -20°C after installation. minimum 0°C for flexing).

Maximum working voltage: (U_o/U): 600/1000V r.m.s.

Test voltage: 3.5kV between conductors.

Minimum insulation resistance: As BS 5467.

Minimum bending radius: 6 x cable diameter.

Availability

HITUF[®] cables from our standard range, as shown in the Physical Data Table, are available ex-stock. The standard sheath colour is black but other colours and sizes can be supplied to special order subject to being within our range of manufacture.

Cable Accessories

Nylon glands: HITUF[®] cables can be terminated using impact resistant nylon glands fitted with a nitrile rubber bush to provide weatherproof entry. Where these cables are to be installed in Zone 1 and Zone 2 fire risk areas, a flame proof gland should be used.

Nylon cable clips: These clips are impact resistant, weatherproof and resistant to a wide range of chemical attack. The interior edges are radiused.

Cable stripping tool TH216: Installation of HITUF[®] is quick and simple, but it is recommended, for speed and hand protection, that this purpose designed stripping tool is used.



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les with High Impact Resistant Sheath...

PHYSICAL DATA

Ref No.	Nominal Cross-Sectional Area mm ²	Number and Diameter of Wires no./mm	Number of Cores	Nominal Diameter of Cable mm	Approx Net Weight kg/km	Gland Male Conduit Thread Size			Fixing Clip Ref.
						20mm	25mm	32mm	
97HUF3/1.5	1.5	7/0.53	TWIN	9.7	140	252/93	253/94		NX4
97HUF3/2.5	2.5	7/0.67	and	11.0	190	252/93	253/94		NX4
97HUF3/4	4.0	7/0.85	EARTH	12.2	260		254/94		NX6
97HUF3/6	6.0	7/1.04		13.6	340		254/94		NX6
97HUF3/10	10.0	7/1.35		16.2	520		254/94		NX11
97HUF3/16	16.0	7/1.70		18.6	750			255/95	NX11
97HUF4/1.5	1.5	7/0.53	THREE	10.4	160	242/93	253/94		NX4
97HUF4/2.5	2.5	7/0.67	CORE	11.9	225	252/93	253/94		NX5
97HUF4/4	4.0	7/0.85	and	13.4	310		254/94		NX6
97HUF4/6	6.0	7/1.04	EARTH	15.0	420		254/94		NX8
97HUF4/10	10.0	7/1.35		17.7	640			255/95	NX11
97HUF4/16	16.0	7/1.70		20.5	930			255/95	NX14
97HUF5/1.5	1.5	7/0.53	FOUR	11.2	190	252/93	253/94		NX4
97HUF5/2.5	2.5	7/0.67	CORE	12.9	270	252/93	253/94		NX5
97HUF5/4	4.0	7/0.85	and	14.3	370		254/94		NX8
97HUF5/6	6.0	7/1.04	EARTH	16.6	520		254/94		NX11
97HUF5/10	10.0	7/1.35		19.5	780			255/95	NX14
97HUF5/16	16.0	7/1.70		22.7	1150			280/111*	NX14

*This Gland has a 40mm thread size.

CURRENT RATINGS AND ASSOCIATED VOLTS DROP

Ambient temperature: 30°C. Conductor operating temperature: 70°C.

Phase Conductor Cross-Sectional Area mm ²	One twin and Earth Cable Single Phase a.c. or d.c.			One Three Core and Earth or Four Core and earth Cable, Three Phase a.a.		
	Current Rating		Volt Drop Per Amp Per Metre mV	Current Rating		Volt Drop Per Amp Per Metre mV
	Installation Methods 1&2 A	Installation Methods 11&13 B		Installation Methods 1&2 A	Installation Methods 11&13 A	
1.5	19.5	22	29.0	17.5	18.5	25.0
2.5	27.0	30	18.0	24.0	25.0	15.0
4.0	26.0	40	11.0	32.0	34.0	9.5
6.0	46.0	51	7.3	41.0	43.0	6.4
10.0	63.0	70	4.4	57.0	60.0	3.8
16.0	85.0	94	2.8	76.0	80.0	2.4

Methods of installation as defined in IEE Wiring Regulations, Appendix 4, Table 4D2A or BS 7671, 16th Edition.

- Method 1** - Open and clipped direct.
- Method 2** - Cables embedded direct in building materials.
- Method 11** - On a perforated cable tray bunched and unenclosed.
- Method 13** - In free air.

The above ratings are applicable to installations with close excess current protection, i.e. a fuse to BS 88 or BS 1361, or a circuit breaker to BS 3871. Where coarse excess current protection is provided, i.e. a semi enclosed fuse to BS 3036, the ratings above must be divided by 1.38.

RATINGS FACTORS

For ambient temperatures other than 30°C, the ratings must be multiplied by the following factors

Ambient Temp. (°C)	25	35	40	45	50	55	60	65
Factor for close excess current protection	1.03	0.94	0.87	0.79	0.71	0.61	0.5	0.35
Factor for coarse excess current protection	1.03	0.97	0.94	0.91	0.87	0.84	0.69	0.48

CORE COLOUR IDENTIFICATION

No. of Cores	Red	Black	Blue	Yellow	Green/Yellow
2 Core + Earth	●	●			●
3 Core + Earth	●		●	●	●
4 Core + Earth	●	●	●	●	●

HITUF[®] is a registered trademark.

Draka Holding N.V.
have manufacturing operations
in the following countries:

BELGIUM

BRAZIL

CHINA

CZECH REPUBLIC

DENMARK

FRANCE

GERMANY

HONG KONG

MALAYSIA

NETHERLANDS

OMAN

PORTUGAL

SINGAPORE

SPAIN

UNITED ARAB EMIRATES

UNITED KINGDOM

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Draka UK
Industrial Cables



BS EN ISO 9001 Cert. No. CS1 - 018 Derby
BS EN ISO 9002 Cert. No. CS2 - 041 Leeds
BS EN ISO 9001 Cert. No. CS1 - 094 Washington

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