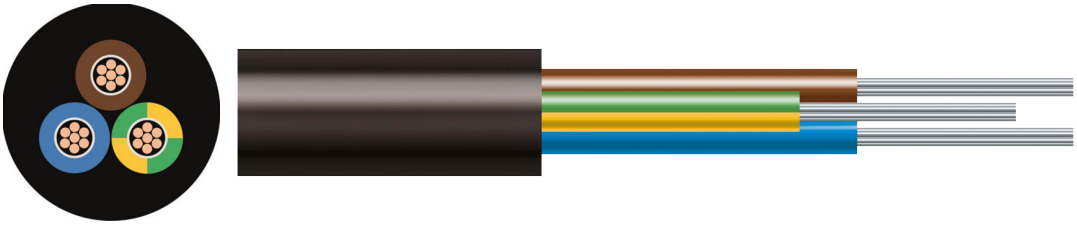
318-TQ H05BN4-F HOFR TRAILING FLEXIBLE CABLE



Flexible TQ cables are ideal for domestic and office use, including applications such as immersion heaters. Designed to prevent electric shock, these unarmored cables are suitable for fixed wiring installations. They are heat, oil, and flame resistant, ensuring safety and reliability in various environments.

CONDUCTOR	Plain Copper
STRANDING	Class 5
INSULATION	EPR
OUTERSHEATH	CSP
OUTERSHEATH COLOUR	Black, White
RATED VOLTAGE	300/500V
CORE IDENTIFICATION	Single core: Black 2 core: Blue & brown 3 core: Blue, brown & green/yellow 4 core: Black, brown, grey & green/yellow 5 core: Black, blue, brown, grey & green/yellow 6 cores and above are numbered
MINIMUM BENDING RADIUS	Cables not exceeding 25mm O/D: 6 x overall diameter / Cables exceeding 25mm O/D@ 8 C overall diameter
OPERATING TEMPERATURE	Maximum 90°C, minimum bending -20°C
STANDARDS	BS EN 50525-2-21

SPECIFICATION DATA

BATT Part No. Black	BATT Part No. White	No. of cores	Nominal cross sectional area of conductor (mm2)	Radial thickness of insulation (mm)	Nominal diameter over laid up cores (mm)	Approx overall diameter (mm)	Weight (kg/km)
22164	22134	2	0.75	0.6	4.8	6.5	63
22139	22140	2	1	0.6	5.2	7.1	77
22033	22144	2	1.5	0.8	6.6	8.7	115
22148		2	2.5	0.9	7.8	10.1	165
22176	22178	3	0.75	0.6	5.2	7.1	78
22184	22182	3	1	0.6	5.7	7.6	90
22190	22191	3	1.5	0.8	7.2	9.3	135
22201	22198	3	2.5	0.9	8.5	10.8	195
22459	22273	4	0.75	0.6	5.8	7.7	94
22428	22371	4	1	0.6	6.3	8.2	110
22401	22109	4	1.5	0.8	8.0	10.3	170
22408	22407	4	2.5	0.9	9.5	12.0	245
22421	22101	5	0.75	0.6	6.5	8.6	110
22430	-	5	1	0.6	7.1	9.2	130
22412	-	5	1.5	0.8	9.0	11.5	195
22413	-	5	2.5	0.9	10.6	13.1	290
22295	-	6	0.75	0.6	7.3	9.6	135
22166	-	7	1	0.6	8.8	11.1	201
22324	-	8	1.5	0.8	12.1	15.2	315
22328	-	8	2.5	0.9	14.3	17.8	465
22332	-	10	0.75	0.6	9.7	12.4	215
22047	-	12	1	0.6	10.9	13.8	318
22422	-	12	1.5	0.8	13.8	17.1	410
22012	-	12	2.5	0.9	16.3	20.0	600
22351	-	16	1.5	0.8	15.6	19.3	570

RATING TABLES

COPPER CONDUCTORS

TABLE 4F3A - Flexible cables, non-armoured (COPPER CONDUCTORS)

CURRENT-CARRYING CAPACITY (amperes): and MASS SUPPORTABLE (kg):

Conductor cross-sectional area	Current-carrying capacity		Maximum mass supportable by twin flexible cable (see Regulations 522.7.2 and 559.5.2)
	Single-phase AC	Three-phase AC	
1	2	3	4
(mm^2)	(A)	(A)	(kg)
0.5	3	3	2
0.75	6	6	3
1	10	10	5
1.25	13	-	5
1.5	16	16	5
2.5	25	20	5
4	32	25	5

Where cable is on a reel see the notes to Table 4F1A.

RATING FACTOR FOR AMBIENT TEMPERATURE

60 °C thermoplastic or thermosetting insulated cable:

Ambient temperature	35 °C	40 °C	45 °C	50 °C	55 °C
Rating factor	0.91	0.82	0.71	0.58	0.41

90 °C thermoplastic or thermosetting insulated cable:

Ambient temperature	35 to 50 °C	55 °C	60 °C	65 °C	70 °C
Rating factor	1.0	0.96	0.83	0.67	0.47

110 °C flexible cable:

Ambient temperature	35 to 80 °C	85 °C	90 °C	95 °C	100 °C	105 °C
Rating factor	1.0	0.96	0.85	0.74	0.60	0.42

150 °C flexible cable:

Ambient temperature	35 to 120 °C	125 °C	130 °C	135 °C	140 °C	145 °C
Rating factor	1.0	0.96	0.85	0.74	0.60	0.42

Glass fibre flexible cable:

Ambient temperature	35 to 50 °C	155 °C	160 °C	165 °C	170 °C	175 °C
Rating factor	1.0	0.92	0.82	0.71	0.57	0.40

TABLE 4F3B

VOLTAGE DROP (per ampere per metre): Conductor operating temperature: 60 °C

Conductor cross-sectional area	DC or single-phase AC	Three-phase AC
1	2	3
(mm^2)	(mV/A/m)	(mV/A/m)
0.5	93	80
0.75	62	54
1	46	40
1.25	37	-
1.5	32	27
2.5	19	16
4	12	10

NOTE: * The tabulated values above are for 60 °C thermoplastic or thermosetting insulated flexible cables and for other types of flexible cable they are to be multiplied by the following factors:

For	90 °C thermoplastic or thermosetting insulated	1.09
	110 °C	1.17
	150 °C	1.31
	185 °C glass fibre	1.43

The information in this datasheet is for guidance only and subject to change without liability. Images provided are representations; actual cable dimensions may vary due to manufacturing tolerances.

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