



Tough flexible cable designed for connecting, measuring, checking and control applications where exposed to cold temperatures, harsh mechanical strain or dragged over sharp/rough surfaces. Can be installed indoors or outdoors, including dry, damp or wet areas. Not suitable for direct burial applications.

Halogen free cables ensure increased safety in the case of fire due to the virtual elimination of toxic HCL (hydrogen chloride) fumes if burnt.

Construction

- stranded plain copper conductors
- rubber compound core insulation
- cores twisted together
- orange PUR (polyurethane) outer sheath

Technical

references:	up to 1.0mm ² = H05BQ-F, 1.5mm ² and above = H07BQ-F
conductor stranding:	according to class 5 (VDE 0295 / IEC 60228 / BS EN 60228:2005)
bend radius:	6 x overall diameter (O/D) fixed, 12.5 x O/D flexing
voltage rating:	H05BQ-F = 300/500V operating, 2000V test H07BQ-F = 450/750V operating, 2500V test
current rating:	see YY, SY & CY derivative chart
temperature range:	-40°C to +90°C flexible, -50°C to +90°C static
standards:	construction generally to HD 22.10.S1 flame retardant according to IEC 60332-1 halogen acid gas emission according to IEC 60754-1 and IEC 60754-2 sheath properties (oil resistance etc.) to DIN VDE 0282 part 10
core identification:	2 core = coloured according to VDE 0293 without earth (green/yellow) 3-5 cores = coloured to VDE 0293 with earth (included in core count) 7+ cores = numbered black cores with earth (included in core count)

Number of Cores	Conductor Area (mm ²)	Overall Diameter (mm)	Overall Weight (kg/km)	Number of Cores	Conductor Area (mm ²)	Overall Diameter (mm)	Overall Weight (kg/km)
2	0.75	6.4	52	2	1.0	7.1	59
3	0.75	7.1	63	3	1.0	7.5	71
4	0.75	7.6	80	4	1.0	8.2	89
5	0.75	8.5	96	5	1.0	9.1	112

Number of Cores	Conductor Area (mm ²)	Overall Diameter (mm)	Overall Weight (kg/km)	Number of Cores	Conductor Area (mm ²)	Overall Diameter (mm)	Overall Weight (kg/km)
2	1.5	8.7	92	4	10.0	21.2	738
3	1.5	9.2	109	5	10.0	23.1	968
4	1.5	10.3	145				
5	1.5	11.2	169	2	16.0	20.3	600
7	1.5	14.4	230	3	16.0	22.1	758
12	1.5	19.0	398	4	16.0	24.2	1187
				5	16.0	26.8	1475
2	2.5	10.3	121				
3	2.5	11.1	164	4	25.0	29.3	1550
4	2.5	12.2	207	5	25.0	32.0	1920
5	2.5	13.6	262				
				4	35.0	32.2	2120
2	4.0	12.1	194	5	35.0	36.5	2600
3	4.0	12.9	224				
4	4.0	14.4	327	4	50.0	38.0	2920
5	4.0	16.0	415	5	50.0	43.0	3700
2	6.0	13.4	311	4	70.0	43.2	3900
3	6.0	14.5	350	5	70.0	49.0	5020
4	6.0	16.1	496				
5	6.0	18.3	586	4	95.0	49.8	5150
				5	95.0	56.0	6520
2	10.0	17.7	428				
3	10.0	19.1	640				

PUR Properties: UV resistant, inflammable material with excellent abrasion and tear resistance. Good resistance to water and mineral oils. Poor resistance to acids and alkalis and no resistance to organic solvents.

PUR (Polyurethane) is also halogen free so will produce less than 0.5% HCL (hydrogen chloride) if burnt.

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