pro-**Power**

RoHS

Compliant



Application:

In pipes or ducts and internal wiring of appliances with maximum operating temperatures of 90°C, and generally in areas (such as public and government buildings) where smoke and toxic fumes may cause a threat to life and equipment. The cables produce no corrosive gases when burnt which is particularly important where electronic equipment is installed.

Construction:

Conductor

Class 5 flexible copper conductor according to BS EN 60228 (previously BS 6360)

Insulation

LSZH (Low Smoke Zero Halogen) Type EI5 thermosetting insulation according to BS EN 50363-5.

Cable Standards

Made in accordance with the following: BS EN 50525-3-41 (previously BS 7211 Table 3 and 4b CENELEC HD22.9), BS EN/IEC 60332-1-2, BS EN 50267-2-1, BS EN/IEC 61034-1

Characteristics:

Voltage Rating (Uo/U)

H05Z-K - 0.5mm² to 1mm² : 300/500V H07Z-K - 1.5mm² to 16mm² : 450/750V

Temperature Rating

-25°C to +90°C

Minimum Bending Radius

Up to 16mm² : 4 × overall diameter

Insulation Colour

Black, Blue, Brown, Green/Yellow & Grey

Dimensions:

2491B - H05Z-K

		Nominal Cross	Thickness of	Nominal Ove	rall Diameter	Min. Resistance of Insulation at 90°C MΩ/km	
Part Number	Colour	Sectional Area mm ²	Insulation mm	Lower Limit mm	Upper Limit mm		
PP000435		0.5	0.6	1.9	2.4	0.015	
PP000436	Black	0.75	0.6	2.2	2.8	0.011	
PP000432		1	0.6	2.4	2.9	0.01	
PP000441	Plue	0.75	0.6	2.2	2.8	0.011	
PP000437	Blue	1	0.6	2.4	2.9	0.01	





		Nominal Cross	Thickness of	Nominal Ove	rall Diameter	Min. Resistance of	
Part Number	Colour	Sectional Area mm ²	Insulation mm	Lower Limit mm	Upper Limit mm		
PP000445	Brown	0.75	0.6	2.2	2.8	0.011	
PP000442	Brown	1	0.6	2.4	2.9	0.01	
PP000449		0.5	0.6	1.9	2.4	0.015	
PP000451	Green/Yellow	0.75	0.6	2.2	2.8	0.011	
PP000446		1	0.6	2.4	2.9	0.01	

6701B – H07Z-K

		Nominal Cross	Thickness of	Nominal Ove	rall Diameter	Min. Resistance of
Part Number	Colour	Sectional Area mm ²	Insulation mm	Lower Limit mm	Upper Limit mm	Insulation at 90°C MΩ/km
PP000433		1.5	0.7	2.8	3.5	0.01
PP000434	Black	2.5	0.8	3.4	4.3	0.009
PP001062	DIACK	10	1	5.7	7.1	0.0056
PP001063		16	1	6.7	8.4	0.0046
PP000438		1.5	0.7	2.8	3.5	0.01
PP000439		2.5	0.8	3.4	4.3	0.009
PP000440	Blue	6	0.8	4.4	5.5	0.006
PP001054		10	1	5.7	7.1	0.0056
PP001055		16	1	6.7	8.4	0.0046
PP000443		1.5	0.7	2.8	3.5	0.01
PP000444	Brown	2.5	0.8	3.4	4.3	0.009
PP001058	BIOWII	10	1	5.7	7.1	0.0056
PP001059		16	1	6.7	8.4	0.0046
PP000447		1.5	0.7	2.8	3.5	0.01
PP000448		2.5	0.8	3.4	4.3	0.009
PP000450	Green/Yellow	6	0.8	4.4	5.5	0.006
PP001060		10	1	5.7	7.1	0.0056
PP001061		16	1	6.7	8.4	0.0046
PP001056	Grov	10	1	5.7	7.1	0.0056
PP001057	Grey	16	1	6.7	8.4	0.0046





Conductors

Class 5 Flexible Copper Conductors for Single Core Cables

Nominal Cross Sectional Area mm ²	Max. Diameter of Wires in Conductor mm	Max. Resistance of Conductor at 20°C Plain Wires Ω / km
0.5	0.21	39
0.75	0.21	26
1	0.21	19.5
1.5	0.26	13.3
2.5	0.26	7.98
6	0.31	3.3
10	0.41	1.91
16	0.41	1.21

Electrical Characteristics:

Current Carrying Capacity

Reference Met (Enclosed In Co in Thermal Insulating Wal Amps		In Conduit rmally Wall Etc)	Reference Method B (Enclosed In Conduit On A Wall or in a Trunking Etc) Amps		(Clipped	e Method C d Direct) nps	or on a P	Method F (erforated C contal or Ver Touching Amps	Reference Method G (In Free Air) Spaced By One Cable Diameter Amps						
Nominal Cross Sectional Area mm ²	2 Cables Single-	3 or 4 Cables	2 Cables Single-	3 or 4 Cables	2 Cables Single- Phase	3 or 4 Cables Three- Phase	Cables Three- Single- 3	3 Cables	3 Cables	3 Cables Three-	Phase AC Cat	s Single- or DC or 3 bles ase AC flat			
	Phase AC or DC	Three- Phase AC	Phase	Phase	Phase	Phase	Phase	Phase AC or Phase AC	AC or DC flat or touching	AC flat and touching or trefoil	Phase AC or DC flat	Three- Phase AC flat	Phase AC trefoil	Horizon- tal	Vertical
1	14	13	17	15	19	17.5	-	-	-	-	-				
1.5	19	17	23	20	25	23	-	-	-	-	-				
2.5	26	23	31	28	34	31	-	-	-	-	-				
6	45	40	54	48	59	54	-	-	-	-	-				
10	61	54	75	66	81	74	-	-	-	-	-				
16	81	73	100	88	109	99	-	-	-	-	-				

Ambient temperature : 30°C

Conductor operating temperature : 90°C

- 1. Where a conductor operates at a temperature exceeding 70°C it must be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature.
- 2. Where cables in this table are connected to equipment or accessories designed to operate at a temperature not exceeding 70°C, the current ratings given in the equivalent table for 70°C thermoplastic insulated cables.





Voltage Drop:

	2 Cables DC mV/A/m	2 Cab	les Single-Pha mV/A/m	se AC	3 or 4 Cables Three-Phase AC mV/A/m				
Nominal Cross Sectional Area Mm²		Reference Methods A And B	Reference Methods C, F and G (Clipped Direct, On Tray Or In Free Air)		Reference Methods A and B	Reference Methods C, F and G (Clipped Direct, On Tray Or In Free Air)			
		(Enclosed in Conduit or Trunking)	Cable Touching	Cable Spaced	(Enclosed in Conduit or Trunking)	Cable Touching Trefoil	Cable Touching Flat	Cable Spaced* Flat	
1	46	46	46	46	40	40	40	40	
1.5	31	31	31	31	27	27	27	27	
2.5	19	19	19	19	16	16	16	16	
6	7.9	7.9	7.9	7.9	6.8	6.8	6.8	6.8	
10	4.7	4.7	4.7	4.7	4	4	4	4	
16	2.9	2.9	2.9	2.9	2.5	2.5	2.5	2.5	

Conductor operating temperature : 90°C

r = Resistive Component

x = Reactive Component

z = Impedance Value

*Spacings larger than one cable diameter will result in a larger voltage drop.

For cables having conductors of 16mm² or less cross-sectional area their inductances can be ignored and (mV/A/m)r values only are tabulated. For cables having conductors greater than 16mm², cross-sectional area the impedance values are given as (mV/A/m)z, together with the resistive component (mV/A/m)r and the reactive component (mV/A/m)x.

De-Rating Factors:

Ambient Temperature	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C	65°C	70°C	85°C	90°C	95°C
De-Rating Factor	1.02	1.00	0.96	0.91	0.87	0.82	0.76	0.71	0.65	0.58	-	-	-

Part Number Table

Description	Harmonised Type	Nominal Cross Sectional Area mm ²	Colour	Reel Length	Part Number
		0.5			PP000435
		0.75	Black	100m	PP000436
		1			PP000432
BS EN 50525-3-41 LSZH Wire	H05Z-K	0.75	Blue		PP000441
		1	Blue		PP000437
		0.75	Brown		PP000445
		1	DIUWII		PP000442





Description	Harmonised Type	Nominal Cross Sectional Area mm ²	Colour	Reel Length	Part Number
		0.5			PP000449
	H05Z-K	0.75	Green/Yellow		PP000451
		1		100m	PP000446
		1.5			PP000433
		2.5	Diask		PP000434
		10	Black	50m	PP001062
		16		5011	PP001063
		1.5			PP000438
		2.5		100m	PP000439
		6	Blue		PP000440
		10		50m	PP001054
BS EN 50525-3-41 LSZH Wire		16			PP001055
	H07Z-K	1.5		100m	PP000443
	11072-1	2.5	Brown	TOOIII	PP000444
		10	BIOWII	50m	PP001058
		16		5011	PP001059
		1.5			PP000447
		2.5		100m	PP000448
		6	Green/Yellow		PP000450
		10			PP001060
		16		50m	PP001061
		10	Grey	5011	PP001056
		16	Gley		PP001057

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. pro-POWER is the registered trademark of the Group. © Premier Farnell plc 2012.



X-ON Electronics

Authorized Distributor

Click to view similar products for Pro Power manufacturer.

Other Similar products are found below :

 PPCY4C075100M
 PPCY3C10050M
 PPC217
 PP001328
 PP001316
 PP001109
 PP001088

 PP000940
 PP030
 PP000909
 PP001326
 PP001308
 PP000868
 PP000704

 PP001163
 PP001156
 PP001085
 PP0001076
 PP000944
 PP000914
 PP000407

 PP000386
 PP000870
 PP000870
 PP000944
 PP000914
 PP000407