



# Doncaster Cables

## SPLIT CONCENTRIC

PVC INSULATED SINGLE PHASE SPLIT  
CONCENTRIC CABLE WITH COPPER CONDUCTORS



Manufactured to BS 4553-1 Table 3

The insulated neutrals and bare earth wires are laid in a concentric layer around the insulated phase conductor with PVC string separators separating the neutral and earths. This is then bound with a clear polyester tape and then PVC sheathed.

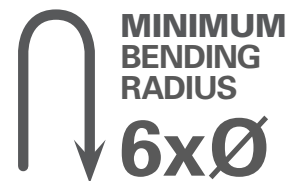
<b>Conductor:</b>	<b>Phase:</b>	Plain Annealed Copper Class 2 Stranded to BSEN60228
	<b>Neutral:</b>	Plain Annealed Copper Class 1 Solid to BSEN60228
	<b>Earth:</b>	Plain Annealed Copper Class 1 Solid to BSEN60228
<b>Insulation:</b>	<b>Phase:</b>	PVC Type T11 to BS EN 50363-3
	<b>Neutral</b>	Blue Compatible Polymeric Compound (PVC)
<b>Binder:</b>		Clear polyester tape
<b>Sheathing:</b>		PVC Type TM1 to BS EN 50363-4-1

Split concentric cables are predominantly used by Distribution Network Operators (DNO's) when providing the final service connection to domestic properties. Split concentric cables are also suitable for sub main distribution and have been found to be particularly useful within high rise buildings and street lighting systems.

These cables are designed to be installed in air, or for burial in free draining soil conditions

### STANDARD CORE COLOURS

Phase: Brown  
Neutral: Blue



**The British Cable Company You Can Trust**



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### Dimensional Details:

Product Code	HSPLITCON4.0	HSPLITCON6.0	HSPLITCON710	HSPLITCON716	HSPLITCON725
Nominal CSA of Phase Conductor (mm <sup>2</sup> )	4.0	6.0	10.0	16.0	25.0
Nominal Makeup of Phase Conductor (mm)	7/0.85	7/1.04	7/1.35	7/1.70	7/2.14
Approx Combined CSA of Neutrals (mm <sup>2</sup> )	4.0	6.0	10.0	16.0	25.0
Nominal Makeup of Neutrals (mm)	7 x 0.85	7 x 1.04	7 x 1.35	7 x 1.70	11 x 1.70
Nominal Combined CSA of Earth (mm <sup>2</sup> )	4	6.0	10.0	16.0	16.0
Nominal Makeup of Earth (mm)	3 x 1.35	4 x 1.53	4 x 1.78	4 x 2.25	4 x 2.25
Nominal Radial Thickness of Insulation (mm)	0.8	0.8	1.0	1.0	1.2
Nominal Radial Thickness of Sheath (mm)	1.4	1.4	1.4	1.4	1.5
Approximate Overall Diameter (mm)	9.8	11.2	12.6	15.0	18.3
Approximate Weight (kg/km)	207	291	403	656	848

Weight and dimensional information is provided as an approximate guide only.





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### Current Ratings and Associated Voltage Drops

Phase Conductor Size (mm <sup>2</sup> )	Current Rating		Approx Voltage Drop
	In air (A)	In Ground (B)	
4	42	53	11.0
6	54	66	7.2
10	74	88	4.3
16	97	115	2.7
25	130	150	1.7

### Maximum Conductor Resistance per 1000m of cable at 20°C

Phase Conductor Size (mm <sup>2</sup> )	4.0	6.0	10.0	16.0	25.0
PHASE Maximum d.c Conductor Resistance at 20°C (ohm/km)	4.61	3.2	1.9	1.2	0.727
NEUTRAL Maximum d.c Conductor Resistance at 20°C (ohm/km)	4.8	3.2	1.9	1.2	0.76
EARTH Maximum d.c Conductor Resistance at 20°C (ohm/km)	4.8	3.2	1.9	1.2	1.2