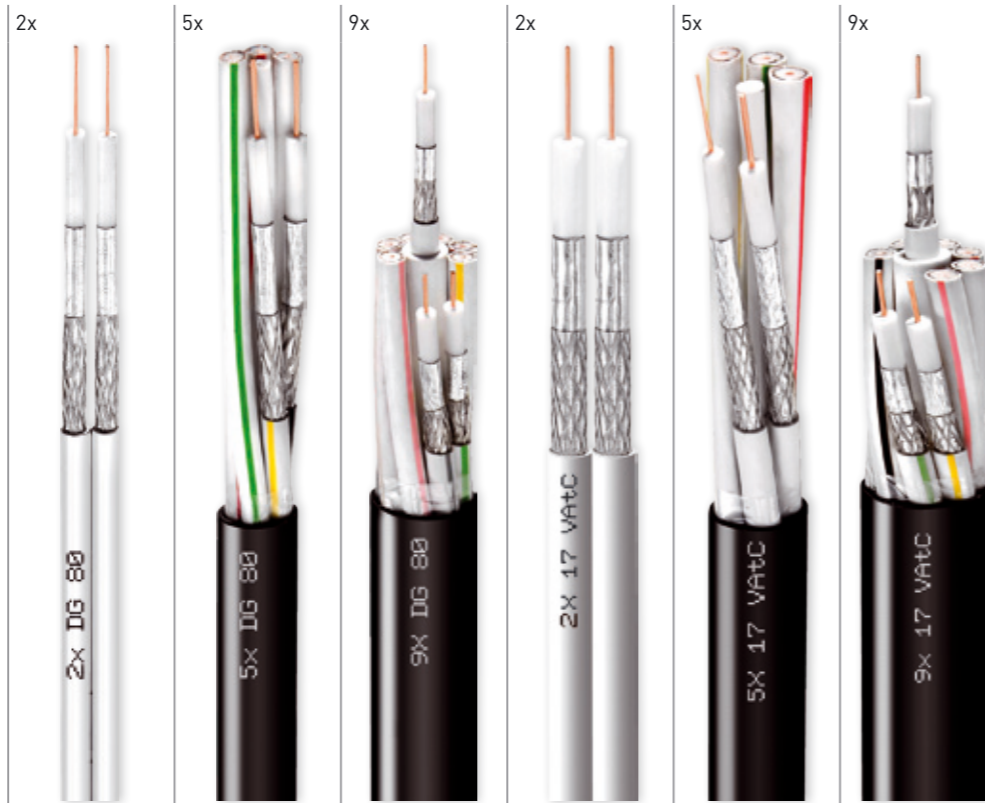


SMATV Multicore Coaxials MULTISWITCH 1st IF DISTRIBUTION

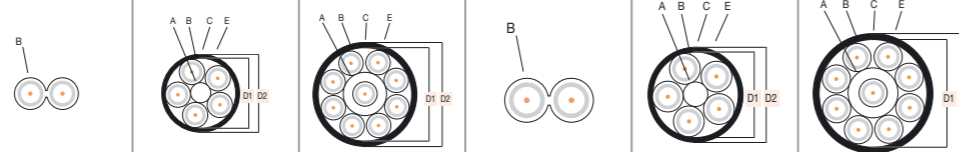
Construction



CAVEL code	2xDG80	5xDG80M	9xDG80M	2x17VAtC	5x17VAtCM	9x17VAtCM
CONSTRUCTION DATA						
Central Filler	A	material - white PVC			-	
		dia. mm	3,50	8,50	-	
Single cable	B	code	DG80 (1)		17VAtC (2)	
		dia. mm	5,00		6,80	
Single Cable's Sheath		material	white PVC with colored stripe		-	
		dia. mm	5,00		6,80	
Spirally Wrapped Film	C	material	Pet			-
Outer Sheath	E	material	white PVC		black PE (flexible)	
		dia. mm	13,60		18,55	
Inner Diameter	D1	mm	-	13,60	18,55	-
Outer Diameter	D2	mm	5x11,00	15,00	19,80	6,8x14,6
PHYSICAL DATA						
Copper Content	kg/km	22,3	57,4	101,7	28,9	72,5
Cable Weight	kg/km	56,3	216,2	364,2	81,7	360,0
Standard Packing						
Put-up	mode	reel	drum	drum	reel	drum
Unit Length	m	100	100	100	100	100
Unit Length Weight	kg	6,3	26,6	36,4	8,8	41,0
Unit Packing Content	m	200	100	100	200	100
Packing Pattern (look at page 25)	mod.	R100L	PD500	PD500	R100L	PD100
Fits CABLEBOX	item	DS250	-	-	DS250	-

Tools & Connectors (look at pages 26-29)

[1] single cable's data at page 6
[2] single cable's data at page 8



Both single and community satellite reception systems are often provided with a dual-feed parabolic antenna, i.e. where the satellite dish is provided with two LNBS, suitable for receiving signals from two different satellites or groups of satellites. In this case the drop line requires two coaxial cables, one for each LNB.

Furthermore, the multiswitch distribution system makes it possible to independently distribute, among all users in the same building, a wide range of both satellite and terrestrial TV signals. For this reason the need for the so-called "light cabling system" is fulfilled by the use of multicore coaxials. Due to this technology the signals distribution requires:

- 4 coaxials for the satellite distribution and 1 coaxial for the terrestrial distribution, where the dish is provided with 1 converter

- 2 groups of 4 coaxials for the satellite distribution and 1 coaxial for the terrestrial if the dish is provided with 2 LNBS

We designed the twin and multicore coaxials shown here with the aim of offering the easiest solutions to professional installers. The use of these cables allows installers to save a lot of time when laying the distribution network.

2x
2 coaxials for dual feed parabolic antenna

5x
4 coaxials for 1 satellite drop line
2 coaxials for the terrestrial drop line

9x
4+4 coaxials for 2 satellite drop lines
1 coaxials for the terrestrial drop line

Twin cables
Both 2xDG80 and 2x17VAtC have just one of the cables printed on the outer sheath; this facilitates the connection of remote poles.

Colour Coding of Multicore Coaxial Cables
Each single cable in the bundle has two coloured stripes on the outer sheath, except for the white-sheathed cable in the core of the bundle. This makes it easier to identify the cables and insert further remote poles.

Furthermore, we have adopted the colour coding system already used by several European manufactures of active and passive components and equipment designed for multiswitch distribution. By convention the following functions have been assigned to this colour coding system:

Colour	Function
Red	High Band Vertical
Yellow	High Band Horizontal
White	Terrestrial
Green	Low Band Horizontal
Black	Low Band Vertical

Multicore coax with multipurpose outer jacket "M"
Initially, these cables were made with a common hard PE jacket, the stiffness of which made their installation quite difficult, if not impossible. With the aim of making it easier to install these cables in both outdoor and underground applications, they have been provided with a flexible black PE outer sheath compound. The M suffix in the code identifies these versions, which entered production at the start of 2010. This jacket is not only flame-retardant but also zero-halogen (halogen-free), therefore it is fire-safe and suitable for indoor applications. Outdoor installations are also possible due to the compound's carbon black content and resistance to UV rays. For underground applications we recommend installation in pipes and ducts.

SMATV Multicore Coaxials

