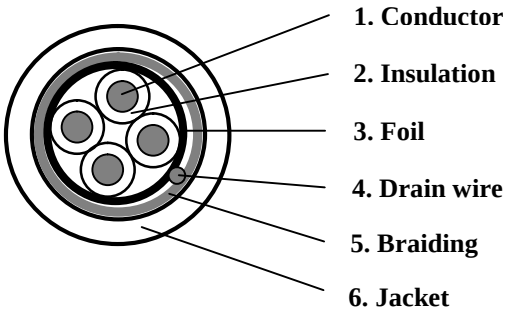
APPLICATION
DMX 512 lighting control applications.

CONSTRUCTION



1. Conductor

Material	Tinned copper.
Dimensions	7 x 0.25 mm (AWG 22)

2. Insulation

Material	PE
Diameter over insulation	1.35 ± 0.10 mm

3. Pairs

Pair	2 insulated conductors
Colour of insulation	White-red, green-black
Number of pairs	2, stranded together

4. Foil

Material	Aluminium Polyester
Dimensions	9/23µm
Position aluminium	Outside
Coverage	100%

5. Drainwire

Material	Tinned copper
Dimension	7 x 0.20 mm (AWG24)
Position drainwire	Over foil, under shielding braid

6. Braiding

Material	Tinned copper
Dimension	24x4x0.13 mm
Coverage	80%

7. Jacket

Material	PVC, flexible with matte finish
Diameter	6.80 ± 0.25 mm
Colour and text	See table below

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REQUIREMENTS AND TEST METHODS

Electrical:

Maximum resistance conductor @ 20°C	58 Ω/km
Maximum resistance shield @ 20°C	15 Ω/km
Minimum insulation resistance @ 20°C	
Nominal capacitance conductor to conductor @ 1 kHz	70 pF/m
Nominal capacitance conductor to other conductor and screen @ 1 kHz	112 pF/m
Nominal inductance @ 1 kHz	68 µH/m
Maximum operating voltage	900 V RMS

Mechanical and physical:

Temperature range processing and operating	-5 to +70 ˚C
Temperature range storage	-25 to +70 ˚C
Copper weight	26.6 kg/km
Total cable weight	61 kg/km

MARKING

Colour code	Jacket colour	RAL	Text
3474	Black	9005/1013	BELDEN 43906 DMX 512
3475	Blue	5015/1013	BELDEN 43906 DMX 512

Meter marking: Yes

OVERVIEW CODES

Code number	Colour code	Putup	Colour	Putup length	Put-up type
BE43906.00100	3474	415	Black	1000 ± 200 meter	non-returnable reel
BE43906.00500	3474	414	Black	500 ± 100 meter	non-returnable reel
BE43906.01500	3475	414	Blue	500 ± 100 meter	non-returnable reel

Each reel is labelled with the following data:
Belden Logo. Belden code number. Item description.
Length on the reel. Date of manufacture. CE marking.

Belden declares this product to be in compliance with the environmental regulations EU RoHS (Directive 2002/95/EC, 27 January 2003); this is valid for all material produced after the RoHS compliant date for this product.

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