Ecoflex® Multicore

Design

Shielded quad LIY(ST) 4X0.35/1.25

• Stranded bare copper wire (22 AWG)	ø 0.76 mm (0.030 in dia)
• Insulation of Polyvinylchloride (PVC)	ø 1.25 mm (0.049 in dia)
• 4 wires twisted	
• Alulaminate foil overlapped	
• max. data transfer rate	1 Mbit/s @ 40m 125 kbit/s @ 100m

Triple LIY 3X1.5/2.5

• Stranded bare copper wire (16 AWG)	ø 1.55 mm (0.061 in dia)
• Insulation of Polyvinylchloride (PVC)	ø 2.30 mm (0.091 in dia)
• 3 wires twisted	
• Sequence of colors: BN-BU-GNYE	
• Plastic tape overlapped	
• Nominal voltage / current	240 V / 10 A

Coaxial element 02YSTKCY 1.12/3.1-50

• Inner conductor: Bare copper wire (17 AWG)	ø 1.12 mm (0.044 in dia)
• Insulation of foamed Polyethylene (PE) with skin	ø 3.1 mm (0.122 in dia)
• Copper foil overlapped, applied longitudinally	
• Shield braiding of bare copper wires	
• Coverage about 70%	ø 3.7 mm (0.146 in dia)
• Jacket: Polyvinylchloride (PVC) BK	ø (5.0 ±0.2) mm (0.197 ±0.008 in dia)

Core

• 1 coaxial element	
• 1 triple LIY 3X1.5/2.5 BN/BU/GNYE	
• 2 quads LIY(ST) 4X0.35/1.25 WH/GN/BU/GY, YE/RD/BN/OG	
• Plastic tape overlapped	ø 10.5 mm (0.413 in dia)

Jacket

• Polyvinylchloride (PVC) BK	ø (12.5 ±0.6) mm (0.492 ±0.024 in dia)

Electrical data at 20°C

• Conductor resistance (16AWG)	≤ 14 Ohm/km
• Conductor resistance (22AWG)	≤ 56 Ohm/km
• Insulation resistance	≥ 20 MOhm*km
• Operating voltage (peak)	≤ 100 V
• Test voltage (wire/wire rms 50Hz 1min)	1000 V
• Test voltage (wire/screen rms 50Hz 1min)	500 V

SSB
Passion in high frequency

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Coaxial element 02YSTKCY 1.12/3.1-50

• Conductor resistance	≤ 20.5 Ohm/km
• Insulation resistance	≥ 10 GOhm*km
• Characteristic impedance	(50 ±2) Ohm
• Capacitance (1 kHz)	78 nF/km
• Screening attenuation 1 GHz (DIN EN 50289-1-6 / triaxial method)	≥ 90 dB
• Relative velocity of propagation	85 %
• Test voltage (wire/screen rms 50Hz 1min)	1000 V

Frequency (MHz)	10	100	500	1000	2000	3000	4000	5000	6000
Attenuation typ. (dB/100m)	2,93	9,4	21,6	31,1	45,1	56,4	66,2	75,1	83
Mean. Power (W) at 40°C	1885	587	256	178	122	98	83	74	66

Mechanical and thermal characteristics

- Insulating material acc. to DIN EN 50290-2-23 (VDE 0819), table 2/A (HD 624.3) (02Y)
- Insulating material acc. to DIN EN 50290-2-21(VDE 0819), compound type TI52 (HD 624.1)
- Jacket material acc. to DIN EN 50290-2-22 (VDE 0819), compound type TM52 (HD 624.2)

Other characteristics

RoHS compliant (Directive 2011/65/EC)

Permissible temperature range

• Transport and fixed installation	-30 °C (-22 °F) up to 80 °C (176 °F)
• Installation and flexible use	-20 °C (-4 °F) up to 80 °C (176 °F)
• Min. bending radius allowed	repeated 8X ø, single 4X ø
• Weight about	169 kg/km (114 lb/1000ft)

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