

Design

Inner conductor: Stranded bare copper wire (10 AWG) ø 2.85 mm (0.112 in dia)
 Insulation of foamed Polyethylene (PE) with skin ø 7.2 mm (0.283 in dia)
 Alulaminat foil overlapped, applied longitudinally
 Shield braiding of tinned copper wires
 Coverage about 70% ø 7.9 mm (0.311 in dia)

Jacket:

Thermoplastic copolymer (FRNC) BK ø (10.2 ±0.3) mm (0.402 ±0.012 in dia)

Printing: FTS-H 400 FRNC * "internal lot number"

Electrical data at 20°C

Conductor resistance	≤	3.6	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	2400	3000	4000	5000	6000
Attenuation typ. (dB/100m) (dB/100ft)	1,2 (0,37)	4 (1,22)	9,6 (2,93)	14,2 (4,33)	21,2 (6,46)	23,6 (7,19)	26,7 (8,14)	31,1 (9,48)	35,2 (10,73)	39 (11,89)
Mean. Power (W) at 40°C	3100	960	413	285	194	175	154	130	115	100

Mechanical and thermal characteristics

Jacket material acc. to DIN EN 50290-2-27 (HD 624.7)
 Flame retardant acc. to IEC 60332-1-2

Other characteristics:

RoHS compliant (Directive 2011/65/EC), Low Smoke, Fire retardant, Zero Halogen
 Corrosivity of fumes acc. to IEC 60754-2, Smoke-density acc. to IEC 61034, UV-resistant

Permissible temperature range

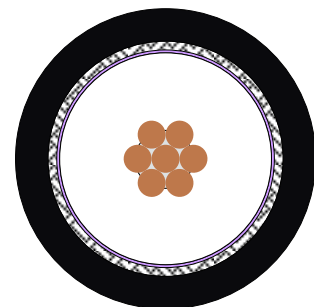
Transport and fixed installation : -55°C (-67°F) up to 85°C (185°F)
 Installation and flexible use : -40°C (-40°F) up to 85°C (185°F)

Min. bending radius allowed : repeated 8X ø, single 4X ø
 Weight about : 136 kg/km (91 lb/1000ft)

Designation of order:

L45466-B18-C516

02YS(ST)CH 3.0/7.2-50 LI SW
 500 m (1640 ft) on non-returnable reel



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