



Physical Characteristics

A. Inner conductor	Materials	Construction
Solid annealed copper wire	Cu	AWG 23
Construction		4 x 2 x AWG 23
B. Insulation material		
Polyethylene	PE	
Coloring insulation	Blue/White-Blue – Orange/White-Orange Green/White-Green – Brown/White-Brown	
C. Dielectric		
Insulation material	Mica tape + PE	
D. Central separator		
Material	LSZH	
E. Fire resistant wrapping tape		
Material	Fiber glass tape	
F. Drainwire		
Tinned copper wire	CuSn	AWG 26
G. Shielding tape		
Coupled tape	Cu/Pet	
H. Sheath		
External insulation and color	See table below	8,50 ± 0,20
Weight	See table below	
Minimum bending radius	10 times overall diameter	
Storage and operating temperature range	-20°C to +75°C	

P/N	Item	Construction	DC resistance [Ω/km]	Weight [kg/km]	Sheath color and material	Fire reaction classification
R07C040002	BNFU5ER FR C NH	4 x 2 x AWG23	72,0 ± 4,0	85,1	LSZH Flame Red RAL 3000	Cca s1b, d1, a1

Electrical characteristics

Characteristic Impedance	100 ± 5 Ω
Capacitance	52 nF/km
Velocity ratio	65 %
Propagation delay	≤ 535 ns/100 m
Dielectric spark test	4 kVdc
Sheath spark test	2 kVdc

Frequency MHz	Max IL dB/100m	Min RL dB	Min Next dB	PS-Next dB/100m	ACR-N dB/100m	PS ACR-N dB/100m	ACR-F dB/100m	PS ACR-F dB/100m
1	1,9	20	70	67	70	67	70	67
4	3,8	23	61	58	58	55	56	53
10	6,1	25	55	52	48	45	51	48
16	7,7	25	52	49	43	40	48	45
20	8,6	25	51	48	41	38	47	44
31,2	10,7	24	48	45	36	33	44	41
62,5	15,7	22	43	40	28	25	40	37
100	19,8	20	41	38	22	19	37	34

Condition of installation

Suitable for protected fixed installation in surface mounted or recessed ducts or similar enclosed systems. They can be installed in a single duct or channel or walkway without the interposition of separating walls.

Cable produced in compliance with the CEI UNEL 36762 standard, therefore suitable for laying in the same conduit with circuits of electrical systems with nominal voltage to earth up to 400 V, typically 230/400 V power systems.

Rated voltage: Cable for systems cat. 0, rated operating voltage not exceeding 50 V in alternating current and 120 V in direct current (not rippled).

Ref. CPR UE 305/11 Fire reaction classification

Communication cables with particular fire reaction characteristics compliant with the Construction Products Regulation (CPR). Reaction to fire classification: See reference product code in the box above to identify the relevant reaction to fire class.

Packaging

Type	Lengths	Description
SF100	100 m ± 2%	Shrink foil roll
WR500	500 m ± 2%	Wooden reel

European Directive Compliance: EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)

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