

(N)HXCH E90



Application

Everywhere, where in case of fire human life and material assets are to be protected and safety consciousness take a special significance. Suitable for fixed installation in dry and moist rooms, in, above, on and beneath plaster as well as in masonry walls and in concrete. These cables are suitable for outdoor applications and in underground by using in conduits or tubes. Additionally valid also DIN VDE 0298 part 1 and 2. For the installation in conduit all precautions must be taken that no accumulation of water can occur in the pipes.

The cables are halogen-free, have low smoke gas development, no fire propagation and insulation retention in the event of fire for 180 minutes in accordance with VDE 0472 part 814. In addition, the cable has been tested for functional integrity in accordance with DIN 4102 Part 12 (E 90) for all standard carrying systems (Cable troughs and ladders, ceiling installation) and is therefore suitable for use in fire alarm systems, systems for alarming and issuing instructions to people, safety lighting and other backup lighting in accordance with VDE 0108.

Standards

security cable in the case of fire to DIN VDE 0266 & FE 180:

Insulation integrity to DIN VDE 0472 part 814 & E 30:

Function-

ality to DIN 4102 part 12

CE = The product is conformed with the EC Low-Voltage Directive 2014/35/EU.

Construction

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Construction



Inner Conductor	bare copper conductor to DIN VDE 0295 cl. 1 or cl. 2, HD 383
Core Insulation	special cross-linked halogen-free fire resistant silicone compound
Core Color	to DIN VDE 0293-308
Stranding Elements	cores stranded in layers
Shielding	bare copper wire screening with helix of copper tape
Inner Sheath Material	halogen free filling compound
Overall Shielding	konzentrischer Leiter aus blanken Kupferdrähten mit Kupferwendel
Outer Insulation Material	polyolefin compound HM4

Technical Data

Nominal Voltage	U_0/U : 600 /1000 V
Nominal Volatage DC	U_0/U : 0 /0
Test Voltage	4000 V
Bending Radius fixed (xD)	12
Operating Temperature solid	-30 °C bis 90 °C
Operating Temperature moving	-15 °C bis 70 °C
Short Circuit Temperature	250 °C
Short Circuit Duration	5 sek.

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Kabel und Leitungen E30/E90

Halogen-Free Cables E30 / E90



Prod. Nr. Prod. Nr.	Dimensions Dimensions	Color Color	Weight (kg/km) Weight (kg/km)	Outer-Diameter (mm) Outer-Diameter (mm)
02608001	2 x 2,5re/2,5	oranžová - orange	290.0	15.0
02608002	3 x 1,5re/1,5	oranžová - orange	354.0	15.0
02608003	3 x 2,5re/2,5	oranžová - orange	413.0	16.0
02608032	3 x 4re/4	oranžová - orange	505.0	19.0
02608033	3 x 6re/6	oranžová - orange	612.0	21.0
02608004	3 x 10re/10	oranžová - orange	814.0	21.0
02608005	3 x 16rm/16	oranžová - orange	1,100.0	23.0
02608034	3 x 25rm/16	oranžová - orange	1,561.0	31.0
02608035	3 x 35rm/16	oranžová - orange	1,923.0	33.0
02608036	3 x 50rm/25	oranžová - orange	2,638.0	37.2
02608048	3 x 70rm/35	oranžová - orange	2,839.0	42.0
02608038	3 x 95rm/50	oranžová - orange	4,713.0	47.6
02608039	3 x 120rm/70	oranžová - orange	5,845.0	51.0
02608011	3 x 150rm/70	oranžová - orange	7,300.0	52.0
02608040	3 x 185rm/95	oranžová - orange	8,773.0	61.0
02608041	3 x 240rm/120	oranžová - orange	9,276.0	68.0
02608012	4 x 1,5re/1,5	oranžová - orange	404.0	17.0
02608013	4 x 2,5re/2,5	oranžová - orange	476.0	19.0
02608014	4 x 4re/4	oranžová - orange	587.0	20.0
02608015	4 x 6re/6	oranžová - orange	715.0	21.0
02608016	4 x 10re/10	oranžová - orange	961.0	23.0
02608017	4 x 16re/16	oranžová - orange	1,300.0	26.0
02608018	4 x 25rm/16	oranžová - orange	1,900.0	31.0
02608019	4 x 35rm/16	oranžová - orange	2,400.0	33.0

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02608020	4 x 50rm/25	oranžová - orange	3,400.0	38.0
02608021	4 x 70rm/35	oranžová - orange	4,500.0	42.0
02608022	4 x 95rm/50	oranžová - orange	6,100.0	49.0
02608023	4 x 120rm/70	oranžová - orange	7,600.0	53.0
02608024	4 x 150rm/70	oranžová - orange	8,700.0	60.0
02608042	4 x 185rm/95	oranžová - orange	11,000.0	67.0
02608031	4 x 240rm/120	oranžová - orange	14,313.0	74.0
02608047	5 x 4re/4	oranžová - orange	587.0	20.5
02608025	7 x 1,5re/2,5	oranžová - orange	544.0	19.0
02608028	7 x 2,5re/2,5	oranžová - orange	643.0	21.0
02608044	12 x 1,5re/2,5	oranžová - orange	803.0	22.0
02608029	12 x 2,5re/4	oranžová - orange	986.0	25.0
02608027	24 x 1,5re/6	oranžová - orange	1,448.0	32.0
02608030	24 x 2,5re/10	oranžová - orange	1,816.0	35.0
02608045	30 x 1,5re/6	oranžová - orange	499.0	40.0
02608046	30 x 2,5re/10	oranžová - orange	840.0	4.0