CU ENVIRO RHE-1-FLEX 95 GNYE 110

Contact

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Nexans Ref.: BZHX07AA001HTNA

Country Ref.: 4250 EAN 13: 9319215452599

Plain Annealed Copper conductor (Flexible), X-HF-110 (XLPE) insulation, Low Fire

Hazard HFS-110-TP sheath, 0.6/1 kV. Made to AS/NZS 5000.1

DESCRIPTION

Applications

ENVIROLEX® flexible single core cable is part of the Nexans Fire Safety Offer. As a Low Fire Hazard (LFH) range, ENVIROLEX® is PVC-free, made with flame retardant compound and reduces toxic smoke emissions in the event of fire, allowing time for safe evacuation.

ENVIROLEX® single core cable has multiple applications including switchboard wiring, pumps, power supplies, transformer LV switches, battery connections.

Benefits

- Flame Retardant, Non Hazardous, No Heavy Metals
- · Low Smoke, Low Calorific Value
- Gross heat of combustion ISO:1716
- Halogen free, PVC Best Practice (As per Green Building Council requirements)
- · Flexible: easy to handle and install
- 110°C continuous operating temperature.
- Flexible conductor (to be used in fixed application).
- Submersible to 500m



STANDARDS

International IEC 60754-1

National AS/NZS 5000.1

CHARACTERISTICS

Construction characteristics Conductor material Copper Type of conductor Stranded flexible X-HF-110 Insulation Sheath colour Green / Yellow HFS-110-TP Outer sheath Conductor flexibility Class 5 Conductor shape Circular With Green/Yellow core No



Conductor flexibility



Rated Voltage Uo/U (Um) 0.6/ 1 (1.2) kV



Cable flexibility Flexible for fixed application



Mechanica resistance to impacts Very good



Max.conductor temp.in service



Smoke density



U.V resistance



Maximum operating temperature

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Construction ch	aracteristics	
With smaller r	eutral conductor	No
Dimensional ch	aracteristics	
Conductor cro	ss-section	95 mm²
Maximum dia	neter of wires	0.31 mm
Nominal overa	all diameter	18.3 mm
Approximate v	veight	0.99 kg/m
Neutral condu	ctor section (when smaller)	- mm²
Number of co	res	1
Electrical chara	cteristics	
Conductor AC	resistance at 50 Hz	0.28 Ohm/km
Inductive read	tance at 50Hz - flat touching	0.1 Ohm/km
Inductive read	tance at 50Hz - trefoil	0.0849 Ohm/km
Insulation resi	stance at 20°C	210 MOhm.km
Max. DC resis	tance of the conductor at 20°C	0.206 Ohm/km
Rated Voltage	Uo/U (Um)	0.6/ 1 (1.2) kV
Mechanical cha	racteristics	
Cable flexibilit	y	Flexible for fixed application
Maximum Pul	ing Tension	4.75 kN
Mechanical re	sistance to impacts	Very good
Usage characte	ristics	
Fire safety		-
Max. conducto	or temperature in service	110 °C
Smoke densit	/	Low
U.V resistance	•	Yes
Minimum Ben	ding Radius during installation	9 (xD)
Bending facto	r when installed	D>25mm: 6 (xD); D<25mm: 4 (xD)
Maximum ope	rating temperature	110 °C



Conductor flexibility



Minimum operating temperature

Rated Voltage Uo/U (Um) 0.6/ 1 (1.2) kV



Cable flexibility Flexible for fixed application



Mechanical resistance to impacts Very good



Max.conductor temp.in service



Smoke density



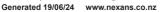
U.V resistance



Maximum operating temperature

-25 °C

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.









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CURRENT CARRYING CAPACITIES SINGLE PHASE (IN AMPS) - SINGLE CORE CU ENVIROLEX 110°C

Copper conductor - Circular Flexible stranded conductor Insulation X-HF-110 - Max. Conductor Temperature 110C

Conductor cross-section	00	8		\$15	\$		
[mm²]	Cu	Cu	Cu	Cu	Cu	Cu	Cu
95	423	352	334	441	331	331	-
Unenclosed spaced from su	rface	Unenclos	ed touching		© Enclose	ed conduit in a	iir
Buried direct	\$	Buried in	multi-way duct	7	Buried i	n single-way	duct
Cable surrounded by thermal insulation, unenclosed	al						

CURRENT CARRYING CAPACITIES THREE PHASE (IN AMPS) - SINGLE CORE CU ENVIROLEX 110°C

Copper conductor - Circular Flexible stranded conductor Insulation X-HF-110 Max. Conductor Temperature 110C

Conductor cross-section		8	380	0		30 7,	66	
[mm²]		Cu	Cu	Cu	Cu	Cu	Cu	Cu
95		378	352	296	369	284	284	-
& Unenclosed spa	ced from surfac	e 🏇	Unenclos	ed touching		© Enclose	ed conduit in a	ir
Buried direct		\$	Buried in	multi-way duct	7	Buried i	n single-way o	duct
Cable surrounde insulation, unen								



Conductor flexibility



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NOTE

- Content from AS/NZS 3008.1.2:2010 has been reproduced with the permission from Standards New Zealand under Copyright Licence 00926. Please see the standard for full details.
- 2. The current ratings in the above tables are only for flexible cables installed in a fixed installation
- The values in the above table are based on typical New Zealand conditions of:-Ambient Air Temperature 30°C Soil Temperature 15°C Soil Thermal resistivity 1.2 K.m/W Depth of Burial 0.5 m

SELLING AND DELIVERY INFORMATION

Nexans Fire Safety Offer ENVIROLEX® Low Fire Hazard Cables PVC-free Red List Free and Declare Labelled Green Star Flexible conductor

