

# VERSOLEX® Flexible Single Core 90°C

CU VERSOLEX 1X 35 NL OG

## Contact

OLEX CUSTOMER SERVICE - Purchase orders, invoices, general enquiries  
Phone: 1300 CABLES  
olex.customerservice@nexans.com

Nexans ref.: BDSX04AA001OMNA

GTIN: 9319215302798

1X35mm<sup>2</sup> Versolex Orange

## DESCRIPTION

- 0.6/1kV cables,
- Flexible X-90 (XLPE) insulated
- TPE sheathed to AS/NZS5000.1 (Power),
- Copper conductors, 90°C.
- Submersible up to 500m

Also available in Low Smoke Zero Halogen materials at 110°C. See Alsecure Envirolex under "Fire Performance".



## STANDARDS

National AS/NZS 5000.1



Rated Voltage U<sub>o</sub>/U (Um)  
0.6/1 kV



Cable flexibility  
Flexible



Maximum operating temperature  
90 °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.

Generated 24/03/21    [www.olex.com.au](http://www.olex.com.au)    Page 1 / 4

# VERSOLEX® Flexible Single Core 90°C

CU VERSOLEX 1X 35 NL OG

## Contact

OLEX CUSTOMER SERVICE - Purchase orders, invoices, general enquiries  
Phone: 1300 CABLES  
olex.customerservice@nexans.com

## CHARACTERISTICS

### Construction characteristics

Conductor material	Copper
With Green/Yellow core	No
Outer sheath	TPE
Colour	Orange
Type of conductor	Copper
With smaller neutral conductor	No
Insulation	X-90

### Dimensional characteristics

Maximum diameter of wires	0.21 mm
Number of cores	1
Nominal overall diameter	12.5 mm
Conductor cross-section	35 mm <sup>2</sup>
Approximate weight	39.0 kg/100m

### Electrical characteristics

Inductive reactance at 50Hz - trefoil	0.096 Ohm/km
Inductive reactance at 50Hz - flat touching	0.111 Ohm/km
Max. DC resistance of the conductor at 20°C	0.554 Ohm/km
Conductor AC resistance at 50 Hz	0.707 Ohm/km
Insulation resistance at 20°C	270.0 MOhm.km
Rated Voltage U <sub>o</sub> /U (U <sub>m</sub> )	0.6/1 kV

### Mechanical characteristics

Cable flexibility	Flexible
-------------------	----------

### Usage characteristics

Maximum operating temperature	90 °C
Bending factor when installed	D>25mm: 6 (xD); D<25mm: 4 (xD)

# VERSOLEX® Flexible Single Core 90°C










CU VERSOLEX 1X 35 NL OG

## Contact










OLEX CUSTOMER SERVICE - Purchase orders, invoices, general enquiries  
Phone: 1300 CABLES  
olex.customerservice@nexans.com

## VERSOLEX SINGLE CORE - CURRENT CARRYING CAPACITY TABLE SINGLE PHASE (IN AMPS)

Insulation type: X-90, X-HF-90, R-EP-90, R-CPE-90, R-HF-90 OR R-CSP-90 Maximum conductor temperature: 90°C  
Reference ambient temperature: 40°C IN AIR, 25°C IN GROUND

Conductor cross-section [mm²]									
	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu
10	83	81	64	64	51	32	106	77	86
16	110	106	85	82	66	43	136	98	110
25	147	141	114	109	87	57	173	127	142
35	183	174	141	132	105	71	210	154	171
50	231	218	178	167	134	-	256	190	212
70	292	274	225	204	163	-	312	232	257
95	351	328	271	248	198	-	364	276	299
120	418	389	322	286	229	-	419	319	350
150	483	448	373	336	269	-	473	368	395
185	555	512	428	377	301	-	528	412	450
240	668	613	515	452	361	-	616	486	523
300	772	705	594	-	-	-	693	548	604
400	933	843	715	-	-	-	804	650	700
500	1090	975	830	-	-	-	906	733	812
630	1288	1135	969	-	-	-	1031	860	931

 Unenclosed spaced	 Unenclosed spaced from surface	 Unenclosed touching
 Enclosed conduit in air	 Thermal insulation, partially surrounded by thermal insulation	 Thermal insulation, completely surrounded by thermal insulation
 Buried direct	 Underground Wiring Enclosure	 Individual Wiring Enclosure

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.

Generated 24/03/21 www.olex.com.au Page 3 / 4

# VERSOLEX® Flexible Single Core 90°C










CU VERSOLEX 1X 35 NL OG

## Contact










OLEX CUSTOMER SERVICE - Purchase orders, invoices, general enquiries  
Phone: 1300 CABLES  
olex.customerservice@nexans.com

## VERSOLEX SINGLE CORE - CURRENT CARRYING CAPACITY TABLE THREE PHASE (IN AMPS)

Insulation type: X-90, X-HF-90, R-EP-90, R-CPE-90, R-HF-90 OR R-CSP-90 Maximum conductor temperature: 90°C  
Reference ambient temperature: 40°C IN AIR, 25°C IN GROUND

Conductor cross-section [mm²]	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu
10	80	69	64	55	44	32	89	66	78
16	106	91	85	73	59	43	115	85	99
25	142	121	114	94	75	57	146	109	128
35	177	151	141	118	94	71	176	134	154
50	223	191	178	144	115	-	215	163	191
70	283	241	225	183	146	-	261	203	231
95	341	290	271	214	171	-	304	237	268
120	406	346	322	256	205	-	349	279	313
150	470	400	372	291	233	-	394	316	352
185	540	459	427	334	267	-	440	357	401
240	651	553	514	391	313	-	511	416	465
300	752	637	591	458	366	-	575	479	537
400	909	764	709	533	426	-	664	554	620
500	1062	884	821	630	504	-	746	642	717
630	1256	1030	956	719	575	-	846	729	818

 Unenclosed spaced	 Unenclosed spaced from surface	 Unenclosed touching
 Enclosed conduit in air	 Thermal insulation, partially surrounded by thermal insulation	 Thermal Insulation, completely surrounded by thermal insulation
 Buried direct	 Underground Wiring Enclosure	 Individual Wiring Enclosure

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.

Generated 24/03/21 www.olex.com.au Page 4 / 4