

BizLink SeaLine® Temp 145

Next-Generation of Cables
for Extreme Environments

Marine

BizLink

BizLink SeaLine® Temp 145

High-Performance Cables Built for Modern Maritime Propulsion



The Challenge 〉

Halogen-free cables rated to +145 °C with DNV and UL approval. Offering maximum fire safety and low smoke for various applications.

SPECIALLY DESIGNED FOR EXTREME ENVIRONMENTS 〉

Engineered for industrial and maritime environments to withstand even the harshest conditions They are suitable for fixed and flexible installations in dry, damp and wet areas and are highly resistant to weathering and UV radiation. They are also largely oil-resistant and ideal for outdoor use.

CHARACTERISTICS 〉

- **Continuous heat resistance up to +145 °C**
- **Certified safety for commercial & naval shipbuilding (DNV & UL approval)**
- **Maximum durability in compact, lightweight designs**
- **Oil & chemical resistant (SHF 2, NEK 606)**

THE SOLUTION IS BIZLINK SeaLine® TEMP 145 〉

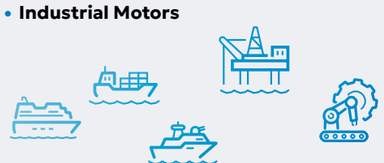
Engineered to withstand harsh engine room environments, BizLink SeaLine® Temp 145 cables combine advanced thermal resistance with high mechanical strength – ensuring continuous power & signal transmission where it matters most.

CORE FEATURES THAT MAKE ALL THE DIFFERENCE 〉

- **Built for Extreme Temperatures**
  Designed for continuous operation up to **+145 °C**, protecting critical systems near engines, turbines, and exhaust lines against heat-induced degradation.
- **Space-Saving & Lightweight Design**
  Optimized outer dimensions and high flexibility allow easy installation in tight cable runs, reducing overall ship weight and simplifying retrofits.
- **Uncompromised Safety & Compliance**
  Halogen-free, flame-retardant, and low-smoke properties prevent secondary fire damage and ensure full compliance with international maritime standards (IEC / DNV / ABS / LR).
- **Maximum Environmental Resistance**
  Highly resistant to oils, fuels, grease, salt spray, and aggressive chemicals – providing long operational lifespans with minimal maintenance.

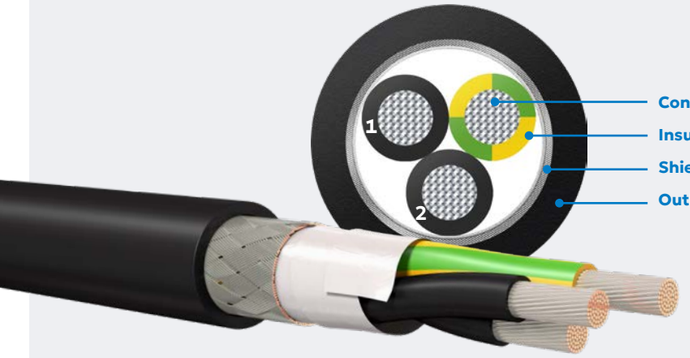
FOR YOUR APPLICATIONS 〉

- **Modern Marine Propulsion & Engine Rooms**
- **Exhaust Gas Cleaning & Recirculation Systems (Scrubbers)**
- **Sensor, Measurement & Control Systems**
- **Commercial Shipbuilding, Offshore & Naval Vessels**
- **Industrial Motors**



BizLink SeaLine® Temp145

Shielded design



Conductor 〉Stranded tinned copper wire
Insulation 〉Polypropylene (PP)
Shield 〉Tin-plated copper braid
Outher jacket 〉FRNC (SHF2, NEK 606)

Application

Engineered for fixed and flexible installations in dry, damp, or wet environments, as well as outdoor applications. Featuring exceptional weather, UV, and oil resistance, this cable ensures reliable performance across demanding conditions. It is the ideal connection solution for engines, heating units, electrical machinery (thermal class B), switchboards, cabinets, and distribution systems in mechanical and plant engineering.

Construction

Conductor	Tinned fine copper strand acc. to VDE 0295/IEC 60228, class 5
Insulation	Polypropylene (PP)
Core color	Cores black, white numbered NR, NRPE or color acc. to customer requirements
Shield	Tinned copper braid
Jacket	Thermoplastic copolymer (FRNC) SHF2
Jacket color	Black or acc. to customer requirements

Features

- Extremely high temperature resistance, operating temperature up to +145 °C
- Cold resistance to –40 °C
- Excellent fire resistance properties
- Halogen free
- EMC-optimised braided shield
- Very good media resistance

Electrical Properties

Rated voltage	U_0/U ≤1 mm² 150/250 V AC U_0/U ≥1.5 mm² 600/1000 V AC
Test voltage	3.0 kV, 50 Hz/1 min (core/core) 3.0 kV, 50 Hz/1 min (core/shield)

Thermal Properties

Operating temperature	–40 °C up to 145 °C (fixed installation) –35 °C up to 120 °C (partially flexible use)

Mechanical Properties

Bending radius	≥4 x Ø (fixed installation) ≥8 x Ø (repeated use)

Material Properties / Standards

Halogenfree	IEC 60754-1
No corrosive gases	IEC 60754-2
Low smoke density	IEC 61034, DIN EN 61034-2
Flame retardant	IEC 60332-1-2
Jacket compound SHF2	IEC 60092-360 SHF2
Oil resistant	IEC 60811-404 (7 x 24 hours/100 °C / IRM 902)
Oil- and fuel resistant	IRM 902 100 °C/24 h IRM 903 100 °C/24 h
UL approval	UL AWM Style 21280 (80 °C/1000 V)

Maritime Approvals

DNV	Certificate No. TAE00003UX (150/250V) Application for DNV certification submitted (600V / 1kV)

Additional Information

- Special designs available on request
- UL AWM Style 21280 (80 °C/1000 V)

TYPE DESCRIPTION 〉LI9YCH-

BizLink SeaLine® Temp145 – Shielded design

Cross section n x mm²	Cores	Operating voltage AC V	Conductor Ø mm	Conductor resistance Ω/km	Core Ø mm	Outer Ø nom. mm	Weight nom. kg/km	Order no.
2 x 0.5	NR	150/250 V	1.0	40.1	1.4	5.8	43	L45551-C21-K46
3 x 0.5	NR	150/250 V	1.0	40.1	1.4	6.0	55	L45551-C31-K46
4 x 0.5	NR	150/250 V	1.0	40.1	1.4	6.4	64	L45551-C41-K46
5 x 0.5	NR	150/250 V	1.0	40.1	1.4	6.7	79	L45551-C51-K46
7 x 0.5	NR	150/250 V	1.0	40.1	1.4	7.2	99	L45551-C71-K46
50 x 0.5	NR	150/250 V	1.0	40.1	1.4	16.0	698	L45551-C501-K46
2 x 0.75	NR	150/250 V	1.1	26.7	1.6	6.2	57	L45551-D21-K46
2 x 0.75	LN	150/250 V	1.1	26.7	1.6	6.2	57	L45551-D21-K56
3 x 0.75	NR	150/250 V	1.1	26.7	1.6	6.4	67	L45551-D31-K46
3 x 0.75	NRPE	150/250 V	1.1	26.7	1.6	6.4	67	L45551-D31-K56
4 x 0.75	NR	150/250 V	1.1	26.7	1.6	6.8	81	L45551-D41-K46
4 x 0.75	NRPE	150/250 V	1.1	26.7	1.6	6.8	81	L45551-D41-K56
5 x 0.75	NR	150/250 V	1.1	26.7	1.6	7.3	92	L45551-D51-K46
5 x 0.75	NRPE	150/250 V	1.1	26.7	1.6	7.3	92	L45551-D51-K56
6 x 0.75	NR	150/250 V	1.1	26.7	1.6	7.8	114	L45551-D61-K46
7 x 0.75	NR	150/250 V	1.1	26.7	1.6	7.8	126	L45551-D71-K46
7 x 0.75	NRPE	150/250 V	1.1	26.7	1.6	7.8	126	L45551-D71-K56
8 x 0.75	NRPE	150/250 V	1.1	26.7	1.6	8.9	159	L45551-D81-K56
10 x 0.75	NR	150/250 V	1.1	26.7	1.6	9.8	175	L45551-D101-K46
12 x 0.75	NR	150/250 V	1.1	26.7	1.6	10.2	199	L45551-D121-K46
14 x 0.75	NR	150/250 V	1.1	26.7	1.6	10.3	201	L45551-D141-K46
14 x 0.75	NRPE	150/250 V	1.1	26.7	1.6	10.3	201	L45551-D141-K56
16 x 0.75	NR	150/250 V	1.1	26.7	1.6	11.0	232	L45551-D161-K46
19 x 0.75	NR	150/250 V	1.1	26.7	1.6	11.3	278	L45551-D191-K46
21 x 0.75	NR	150/250 V	1.1	26.7	1.6	12	298	L45551-D211-K46
25 x 0.75	NRPE	150/250 V	1.1	26.7	1.6	13.2	401	L45551-D251-K56
27 x 0.75	NR	150/250 V	1.1	26.7	1.6	13.5	401	L45551-D271-K46
37 x 0.75	NR	150/250 V	1.1	26.7	1.6	15.0	549	L45551-D371-K46
50 x 0.75	NR	150/250 V	1.1	26.7	1.6	17.5	742	L45551-D501-K46
2 x 1	NR	150/250 V	1.2	20.0	1.9	6.7	70	L45551-E21-K16
3 x 1	NR	150/250 V	1.2	20.0	1.9	7.1	80	L45551-E31-K16
3 x 1	NRPE	150/250 V	1.2	20.0	1.9	7.1	80	L45551-E31-K26
4 x 1	NR	150/250 V	1.2	20.0	1.9	7.6	99	L45551-E41-K16
4 x 1	NRPE	150/250 V	1.2	20.0	1.9	7.6	99	L45551-E41-K26
5 x 1	NR	150/250 V	1.2	20.0	1.9	8.8	125	L45551-E51-K16
5 x 1	NRPE	150/250 V	1.2	20.0	1.9	8.8	125	L45551-E51-K26
6 x 1	NR	150/250 V	1.2	20.0	1.9	8.8	138	L45551-E61-K16
7 x 1	NR	150/250 V	1.2	20.0	1.9	8.8	169	L45551-E71-K16
7 x 1	NRPE	150/250 V	1.2	20.0	1.9	8.8	169	L45551-E71-K26
8 x 1	NR	150/250 V	1.2	20.0	1.9	10.1	201	L45551-E81-K16
10 x 1	NRPE	150/250 V	1.2	20.0	1.9	10.9	231	L45551-E101-K26
12 x 1	NR	150/250 V	1.2	20.0	1.9	11.3	243	L45551-E121-K16
2 x 1.5	NR	150/250 V	1.5	13.7	2.0	7.0	82	L45551-F21-K46
2 x 1.5	NR	0.6/1.0 kV	1.5	13.7	2.0	7.2	86	L45551-F21-K76
3 x 1.5	NR	150/250 V	1.5	13.7	2.0	7.2	87	L45551-F31-K46
3 x 1.5	NR	0.6/1.0 kV	1.5	13.7	2.0	7.5	89	L45551-F31-K76
3 x 1.5	LNPE	0.6/1.0 kV	1.5	13.7	2.0	7.5	89	L45551-F31-K6
3 x 1.5	NRPE	150/250 V	1.5	13.7	2.0	7.2	87	L45551-F31-K66
4 x 1.5	NR	150/250 V	1.5	13.7	2.0	8.1	128	L45551-F41-K56
4 x 1.5	NRPE	0.6/1.0 kV	1.5	13.7	2.0	8.1	128	L45551-F41-K86

Core colors HD 308 S2 (DIN VDE 0293-308): NR 〉● numbered NRPE 〉● numbered + ◑
LN 〉●● LNPE 〉●●◑ 3LPE 〉●●●◑ 2LNPE 〉●●●●◑ 3LNPE 〉●●●●◑

TYPE DESCRIPTION › LI9YCH- BizLink SeaLine® Temp 145 – Shielded design

Cross section n x mm²	Cores	Operating voltage AC V	Conductor Ø mm	Conductor resistance Ω/km	Core Ø mm	Outer Ø nom. mm	Weight nom. kg/km	Order no.
4 x 1.5	NRPE	150/250 V	1.5	13.7	2.0	8.1	128	L45551-F41-K66
5 x 1.5	NR	150/250 V	1.5	13.7	2.0	8.3	151	L45551-F51-K56
5 x 1.5	NRPE	0.6/1.0 kV	1.5	13.7	2.0	8.6	156	L45551-F51-K86
5 x 1.5	NRPE	150/250 V	1.5	13.7	2.0	8.3	151	L45551-F51-K66
6 x 1.5	NR	0.6/1.0 kV	1.5	13.7	2.0	9.6	182	L45551-F61-K76
7 x 1.5	NR	150/250 V	1.5	13.7	2.0	9.1	179	L45551-F71-K56
7 x 1.5	NRPE	0.6/1.0 kV	1.5	13.7	2.0	9.4	184	L45551-F71-K86
8 x 1.5	NR	0.6/1.0 kV	1.5	13.7	2.0	10.7	204	L45551-F81-K76
10 x 1.5	NR	150/250 V	1.5	13.7	2.0	11.3	265	L45551-F101-K56
12 x 1.5	NR	0.6/1.0 kV	1.5	13.7	2.0	12.1	297	L45551-F121-K76
14 x 1.5	NR	0.6/1.0 kV	1.5	13.7	2.0	12.6	373	L45551-F141-K76
16 x 1.5	NRPE	0.6/1.0 kV	1.5	13.7	2.0	13.2	398	L45551-F161-K86
19 x 1.5	NR	0.6/1.0 kV	1.5	13.7	2.0	13.9	480	L45551-F191-K76
21 x 1.5	NR	0.6/1.0 kV	1.5	13.7	2.0	14.5	597	L45551-F211-K76
25 x 1.5	NRPE	0.6/1.0 kV	1.5	13.7	2.0	16.0	698	L45551-F251-K86
36 x 1.5	NRPE	0.6/1.0 kV	1.5	13.7	2.0	18.2	903	L45551-F361-K86
2 x 2.5	NR	150/250 V	2.0	8.2	2.7	8.4	127	L45551-G21-K46
2 x 2.5	NR	0.6/1.0 kV	2.0	8.2	2.7	8.6	131	L45551-G21-K76
3 x 2.5	NR	150/250 V	2.0	8.2	2.7	8.8	149	L45551-G31-K16
3 x 2.5	NR	0.6/1.0 kV	2.0	8.2	2.7	8.8	149	L45551-G31-K76
3 x 2.5	LNPE	0.6/1.0 kV	2.0	8.2	2.7	8.8	149	L45551-G31-K6
3 x 2.5	NRPE	0.6/1.0 kV	2.0	8.2	2.7	8.8	149	L45551-G31-K86
3 x 2.5	NRPE	150/250 V	2.0	8.2	2.7	8.8	160	L45551-G31-K26
4 x 2.5	NR	150/250 V	2.0	8.2	2.7	9.6	182	L45551-G41-K46
4 x 2.5	NR	0.6/1.0 kV	2.0	8.2	2.7	9.8	189	L45551-G41-K76
4 x 2.5	2LNPE	0.6/1.0 kV	2.0	8.2	2.7	9.8	189	L45551-G41-K6
4 x 2.5	NRPE	0.6/1.0 kV	2.0	8.2	2.7	9.8	189	L45551-G41-K86
5 x 2.5	NR	0.6/1.0 kV	2.0	8.2	2.7	10.7	209	L45551-G51-K76
5 x 2.5	NRPE	0.6/1.0 kV	2.0	8.2	2.7	10.7	209	L45551-G51-K86
6 x 2.5	NR	0.6/1.0 kV	2.0	8.2	2.7	11.6	297	L45551-G61-K76
7 x 2.5	NRPE	0.6/1.0 kV	2.0	8.2	2.7	11.6	312	L45551-G71-K86
8 x 2.5	NR	0.6/1.0 kV	2.0	8.2	2.7	13.4	401	L45551-G81-K76
10 x 2.5	NR	150/250 V	2.0	8.2	2.7	15.1	475	L45551-G101-K46
10 x 2.5	NRPE	0.6/1.0 kV	2.0	8.2	2.7	15.1	475	L45551-G101-K86
11 x 2.5	NR	0.6/1.0 kV	2.0	8.2	2.7	15.6	528	L45551-G111-K76
12 x 2.5	NR	150/250 V	2.0	8.2	2.7	14.8	503	L45551-G121-K46
12 x 2.5	NR	0.6/1.0 kV	2.0	8.2	2.7	14.8	503	L45551-G121-K76
14 x 2.5	NR	150/250 V	2.0	8.2	2.7	15.6	598	L45551-G141-K46
14 x 2.5	NRPE	0.6/1.0 kV	2.0	8.2	2.7	15.6	598	L45551-G141-K86
19 x 2.5	NR	150/250 V	2.0	8.2	2.7	17.4	853	L45551-G191-K46
19 x 2.5	NR	0.6/1.0 kV	2.0	8.2	2.7	17.7	853	L45551-G191-K76
21 x 2.5	NR	0.6/1.0 kV	2.0	8.2	2.7	18.4	921	L45551-G211-K76
24 x 2.5	NR	0.6/1.0 kV	2.0	8.2	2.7	20.6	1076	L45551-G241-K76
27 x 2.5	NR	150/250 V	2.0	8.2	2.7	20.7	1080	L45551-G271-K46
27 x 2.5	NR	0.6/1.0 kV	2.0	8.2	2.7	21.1	1099	L45551-G271-K76
37 x 2.5	NR	0.6/1.0 kV	2.0	8.2	2.7	28.3	1502	L45551-G371-K76
2 x 4	NR	0.6/1.0 kV	2.7	5.1	3.6	10.6	175	L45551-H21-K76
3 x 4	NR	0.6/1.0 kV	2.7	5.1	3.6	11.3	212	L45551-H31-K76
3 x 4	NRPE	0.6/1.0 kV	2.7	5.1	3.6	11.3	212	L45551-H31-K86
4 x 4	NR	0.6/1.0 kV	2.7	5.1	3.6	12.3	269	L45551-H41-K76
5 x 4	NR	0.6/1.0 kV	2.7	5.1	3.6	13.4	270	L45551-H51-K76

Core colors HD 308 S2 (DIN VDE 0293-308): NR › ● numbered NRPE › ● numbered + ◑
LN › ●● LNPE › ●●◑ 3LPE › ●●●◑ 2LNPE › ●●●◑ 3LNPE › ●●●●◑

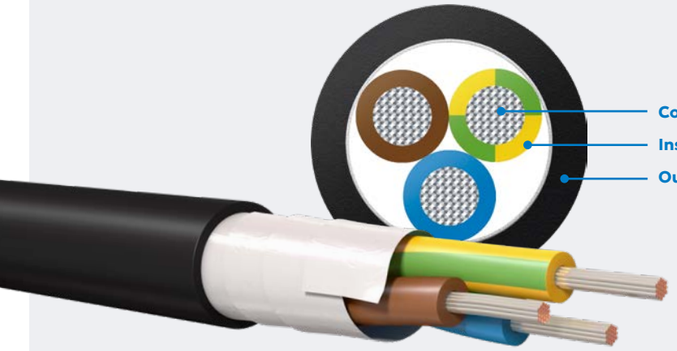
TYPE DESCRIPTION › LI9YCH- BizLink SeaLine® Temp 145 – Shielded design

Cross section n x mm²	Cores	Operating voltage AC V	Conductor Ø mm	Conductor resistance Ω/km	Core Ø mm	Outer Ø nom. mm	Weight nom. kg/km	Order no.
5 x 4	NRPE	0.6/1.0 kV	2.7	5.1	3.6	13.4	270	L45551-H51-K86
6 x 4	NR	0.6/1.0 kV	2.7	5.1	3.6	14.5	401	L45551-H61-K76
7 x 4	NR	0.6/1.0 kV	2.7	5.1	3.6	14.5	480	L45551-H71-K76
8 x 4	NR	0.6/1.0 kV	2.7	5.1	3.6	16.9	564	L45551-H81-K76
10 x 4	NR	0.6/1.0 kV	2.7	5.1	3.6	18.4	674	L45551-H101-K76
12 x 4	NRPE	0.6/1.0 kV	2.7	5.1	3.6	19.2	743	L45551-H121-K86
14 x 4	NR	0.6/1.0 kV	2.7	5.1	3.6	20.0	863	L45551-H141-K76
2 x 6	NR	150/250 V	3.1	3.4	3.9	11.3	224	L45551-J21-K6
2 x 6	NR	0.6/1.0 kV	3.1	3.4	3.9	11.5	230	L45551-J21-K76
3 x 6	NR	150/250 V	3.1	3.4	3.9	11.9	298	L45551-J31-K46
3 x 6	NR	0.6/1.0 kV	3.1	3.4	3.9	12.1	321	L45551-J31-K76
4 x 6	NR	150/250 V	3.1	3.4	3.9	13.2	362	L45551-J41-K46
4 x 6	NR	0.6/1.0 kV	3.1	3.4	3.9	13.2	362	L45551-J41-K76
4 x 6	NRPE	0.6/1.0 kV	3.1	3.4	3.9	13.2	362	L45551-J41-K86
5 x 6	NR	150/250 V	3.1	3.4	3.9	14.4	444	L45551-J51-K46
5 x 6	NR	0.6/1.0 kV	3.1	3.4	3.9	14.4	444	L45551-J51-K76
5 x 6	NRPE	0.6/1.0 kV	3.1	3.4	3.9	14.4	444	L45551-J51-K86
6 x 6	NR	0.6/1.0 kV	3.1	3.4	3.9	16.2	564	L45551-J61-K76
7 x 6	NRPE	0.6/1.0 kV	3.1	3.4	3.9	16.2	603	L45551-J71-K86
8 x 6	NR	0.6/1.0 kV	3.1	3.4	3.9	18.8	715	L45551-J81-K76
2 x 10	NR	150/250 V	4.4	1.95	5.2	14.0	348	L45551-J21-K146
2 x 10	NR	0.6/1.0 kV	4.4	1.95	5.2	14.0	348	L45551-J21-K176
3 x 10	NR	150/250 V	4.4	1.95	5.2	14.9	499	L45551-J31-K146
3 x 10	NR	0.6/1.0 kV	4.4	1.95	5.2	14.9	499	L45551-J31-K176
4 x 10	NR	150/250 V	4.4	1.95	5.2	16.3	601	L45551-J41-K146
4 x 10	NR	0.6/1.0 kV	4.4	1.95	5.2	16.3	601	L45551-J41-K176
4 x 10	NRPE	0.6/1.0 kV	4.4	1.95	5.2	16.3	601	L45551-J41-K186
5 x 10	NR	150/250 V	4.4	1.95	5.2	17.9	743	L45551-J51-K146
5 x 10	NR	0.6/1.0 kV	4.4	1.95	5.2	17.9	743	L45551-J51-K176
5 x 10	NRPE	0.6/1.0 kV	4.4	1.95	5.2	17.9	743	L45551-J51-K186
6 x 10	NR	0.6/1.0 kV	4.4	1.95	5.2	19.6	855	L45551-J61-K176
7 x 10	NR	0.6/1.0 kV	4.4	1.95	5.2	19.6	1001	L45551-J71-K176
2 x 16	NR	150/250 V	5.4	1.25	6.9	17.7	539	L45551-K21-K46
2 x 16	NR	0.6/1.0 kV	5.4	1.25	6.9	17.7	539	L45551-K21-K76
3 x 16	NR	0.6/1.0 kV	5.4	1.25	6.9	18.9	713	L45551-K31-K76
4 x 16	NR	0.6/1.0 kV	5.4	1.25	6.9	20.9	925	L45551-K41-K76
4 x 16	NRPE	0.6/1.0 kV	5.4	1.25	6.9	20.9	925	L45551-K41-K86
4 x 16	2LNPE	0.6/1.0 kV	5.4	1.25	6.9	20.9	925	L45551-K41-K6
5 x 16	NRPE	0.6/1.0 kV	5.4	1.25	6.9	23.0	1145	L45551-K51-K86
2 x 25	NR	0.6/1.0 kV	7.2	0.795	9.4	23.4	888	L45551-M21-K76
3 x 25	NR	0.6/1.0 kV	7.2	0.795	9.4	24.9	1123	L45551-M31-K76
4 x 25	NR	0.6/1.0 kV	7.2	0.795	9.4	27.6	1401	L45551-M41-K76
5 x 25	NRPE	0.6/1.0 kV	7.2	0.795	9.4	30.5	1812	L45551-M51-K86
2 x 35	NR	0.6/1.0 kV	7.7	0.565	9.9	24.5	1107	L45551-M21-K176
3 x 35	NR	0.6/1.0 kV	7.7	0.565	10	26.3	1461	L45551-M31-K176
4 x 35	NR	0.6/1.0 kV	7.7	0.565	10	29.1	1855	L45551-M41-K176
4 x 35	NRPE	0.6/1.0 kV	7.7	0.565	10	29.1	1855	L45551-M41-K186
5 x 35	NRPE	0.6/1.0 kV	7.7	0.565	10	32.2	2332	L45551-M51-K186

Core colors HD 308 S2 (DIN VDE 0293-308): NR › ● numbered NRPE › ● numbered + ◑
LN › ●● LNPE › ●●◑ 3LPE › ●●●◑ 2LNPE › ●●●◑ 3LNPE › ●●●●◑

BizLink SeaLine® Temp 145

Unshielded design



Conductor › Stranded tinned copper wire
Insulation › Cross-linked insulating compound HF90
Outer jacket › FRNC (SHF2, NEK 606)

Application

Engineered for fixed and flexible installations in dry, damp, or wet environments, as well as outdoor applications. Featuring exceptional weather, UV, and oil resistance, this cable ensures reliable performance across demanding conditions. It is the ideal connection solution for engines, heating units, electrical machinery (thermal class B), switchboards, cabinets, and distribution systems in mechanical and plant engineering.

Construction

Conductor	Tinned fine copper strand acc. to VDE 0295 / IEC 60228, class 5
Insulation	Insulation material acc. to IEC 60092-360 HF90
Core color	Cores black, white numbered NR, NRPE or color acc. to customer requirements
Jacket	Thermoplastic copolymer (FRNC) SHF2
Jacket color	Black or acc. to customer requirements

Features

- Extremely high temperature resistance, operating temperature up to +145 °C
- Cold resistance to –40 °C
- Excellent fire resistance properties
- Halogen free
- Very good media resistance

Electrical Properties

Rated voltage	$U_0/U \leq 0.75$ mm² 150 / 250 V AC $U_0/U \geq 1.0$ mm² 600 / 1000 V AC
Test voltage	3.0 kV, 50 Hz/1 min (core / core)

Thermal Properties

Operating temperature	–40°C up to 145 °C (fixed installation) –35 °C up to 120 °C (partially flexible use)

Mechanical Properties

Bending radius	≥ 4 x Ø (fixed installation) ≥ 8 x Ø (repeated use)

Material Properties / Standards

Halogen free	IEC 60754-1
Non corrosive gases	IEC 60754-2
Low smoke density	IEC 61034, DIN EN 61034-2
Flame retardant	EN IEC 60332-1-2
Insulation compound HF90	IEC 60092-360
Jacket compound SHF2	IEC 60092-360
Oil resistant	IEC 60811-404 (7 x 24 hours / 100 °C / IRM 902)
Oil- and fuel resistant	IRM 902 100 °C / 24 h IRM 903 100 °C / 24 h
UL approval	UL AWM Style 21280 (80 °C / 1000 V)

Maritime Approvals

DNV	Application for DNV certification submitted

Additional Information

- Special designs available on request
- UL AWM Style 21280 (80 °C / 1000 V)

TYPE DESCRIPTION › LIHH-

BizLink SeaLine® Temp 145 – Unshielded design

Cross section n x mm²	Cores	Operating voltage AC V	Conductor Ø mm	Conductor resistance Ω/km	Core Ø mm	Outer Ø nom. mm	Weight nom. kg/km	Order no.
2 x 0.5	LN	150/250 V	0.9	40.1	2.2	6.6	45	L45550-C21-B76
3 x 0.5	LNPE	150/250 V	0.9	40.1	2.2	6.9	68	L45550-C31-B66
4 x 0.5	NR	150/250 V	0.9	40.1	2.2	7.6	88	L45550-C41-B56
5 x 0.5	3LNPE	150/250 V	0.9	40.1	2.2	8.2	132	L45550-C51-B66
7 x 0.5	NR	150/250 V	0.9	40.1	2.2	9.8	143	L45550-C71-B56
2 x 0.75	LN	150/250 V	1.1	26.7	2.4	7.0	56	L45550-D21-B76
2 x 0.75	NR	150/250 V	1.1	26.7	2.4	7.0	56	L45550-D21-B56
3 x 0.75	LNPE	150/250 V	1.1	26.7	2.4	7.4	78	L45550-D31-B76
3 x 0.75	NR	150/250 V	1.1	26.7	2.4	7.4	78	L45550-D31-B56
4 x 0.75	3LPE	150/250 V	1.1	26.7	2.4	8.0	94	L45550-D41-B86
4 x 0.75	2LNPE	150/250 V	1.1	26.7	2.4	8.0	94	L45550-D41-B76
4 x 0.75	NR	150/250 V	1.1	26.7	2.4	8.0	94	L45550-D41-B56
5 x 0.75	NR	150/250 V	1.1	26.7	2.4	8.8	100	L45550-D51-B56
5 x 0.75	3LNPE	150/250 V	1.1	26.7	2.4	8.8	100	L45550-D51-B76
6 x 0.75	NR	150/250 V	1.1	26.7	2.4	9.6	132	L45550-D61-B56
6 x 0.75	NRPE	150/250 V	1.1	26.7	2.4	9.6	132	L45550-D61-B66
7 x 0.75	NRPE	150/250 V	1.1	26.7	2.4	10.4	163	L45550-D71-B66
8 x 0.75	NRPE	150/250 V	1.1	26.7	2.4	11.3	172	L45550-D81-B66
10 x 0.75	NR	150/250 V	1.1	26.7	2.4	12.1	185	L45550-D101-B56
10 x 0.75	NRPE	150/250 V	1.1	26.7	2.4	12.1	185	L45550-D101-B66
12 x 0.75	NR	150/250 V	1.1	26.7	2.4	12.7	221	L45550-D121-B56
12 x 0.75	NRPE	150/250 V	1.1	26.7	2.4	12.7	221	L45550-D121-B66
14 x 0.75	NRPE	150/250 V	1.1	26.7	2.4	13.3	242	L45550-D141-B66
16 x 0.75	NRPE	150/250 V	1.1	26.7	2.4	13.5	296	L45550-D161-B66
16 x 0.75	NR	150/250 V	1.1	26.7	2.4	13.5	296	L45550-D161-B56
30 x 0.75	NRPE	150/250 V	1.1	26.7	2.4	18.5	541	L45550-D301-B66
2 x 1	NR	0.6/1.0 kV	1.3	20.0	2.7	7.7	67	L45550-E21-B56
2 x 1	LN	0.6/1.0 kV	1.3	20.0	2.7	7.7	67	L45550-E21-B76
4 x 1	NR	0.6/1.0 kV	1.3	20.0	2.7	9.0	122	L45550-E41-B56
4 x 1	3LPE	0.6/1.0 kV	1.3	20.0	2.7	9.0	122	L45550-E41-B86
4 x 1	2LNPE	0.6/1.0 kV	1.3	20.0	2.7	9.0	122	L45550-E41-B76
3 x 1	NR	0.6/1.0 kV	1.3	20.0	2.7	8.3	91	L45550-E31-B56
3 x 1	LNPE	0.6/1.0 kV	1.3	20.0	2.7	8.3	91	L45550-E31-B76
5 x 1	NR	0.6/1.0 kV	1.3	20.0	2.7	9.9	139	L45550-E51-B56
5 x 1	3LNPE	0.6/1.0 kV	1.3	20.0	2.7	9.9	139	L45550-E51-B76
5 x 1	NRPE	0.6/1.0 kV	1.3	20.0	2.7	9.9	139	L45550-E51-B66
6 x 1	NR	0.6/1.0 kV	1.3	20.0	2.7	10.8	148	L45550-E61-B56
6 x 1	NRPE	0.6/1.0 kV	1.3	20.0	2.7	10.8	148	L45550-E61-B66
7 x 1	NRPE	0.6/1.0 kV	1.3	20.0	2.7	11.6	162	L45550-E71-B66
8 x 1	NR	0.6/1.0 kV	1.3	20.0	2.7	12.5	198	L45550-E81-B56
8 x 1	NRPE	0.6/1.0 kV	1.3	20.0	2.7	12.5	198	L45550-E81-B66
10 x 1	NR	0.6/1.0 kV	1.3	20.0	2.7	13.7	240	L45550-E101-B56
10 x 1	NRPE	0.6/1.0 kV	1.3	20.0	2.7	13.7	240	L45550-E101-B66
12 x 1	NR	0.6/1.0 kV	1.3	20.0	2.7	14.3	258	L45550-E121-B56
12 x 1	NRPE	0.6/1.0 kV	1.3	20.0	2.7	14.3	258	L45550-E121-B66
14 x 1	NRPE	0.6/1.0 kV	1.3	20.0	2.7	14.8	266	L45550-E141-B66
16 x 1	NRPE	0.6/1.0 kV	1.3	20.0	2.7	15.7	294	L45550-E161-B66
19 x 1	NRPE	0.6/1.0 kV	1.3	20.0	2.7	16.6	406	L45550-E191-B66
21 x 1	NRPE	0.6/1.0 kV	1.3	20.0	2.7	17.5	424	L45550-E211-B66
24 x 1	NRPE	0.6/1.0 kV	1.3	20.0	2.7	19.5	440	L45550-E241-B66

Core colors HD 308 S2 (DIN VDE 0293-308): NR › ● numbered NRPE › ● numbered + ◑
LN › ●● LNPE › ●●◑ 3LPE › ●●●◑ 2LNPE › ●●●◑ 3LNPE › ●●●●◑

TYPE DESCRIPTION › LIHH-

BizLink SeaLine® Temp 145 – Unshielded design

Cross section n x mm²	Cores	Operating voltage AC V	Conductor Ø mm	Conductor resistance Ω/km	Core Ø mm	Outer Ø nom. mm	Weight nom. kg/km	Order no.
25 x 1	NRPE	0.6/1.0 kV	1.3	20.0	2.7	19.5	451	L45550-E251-B66
27 x 1	NRPE	0.6/1.0 kV	1.3	20.0	2.7	20.1	462	L45550-E271-B66
30 x 1	NRPE	0.6/1.0 kV	1.3	20.0	2.7	20.7	539	L45550-E301-B66
33 x 1	NRPE	0.6/1.0 kV	1.3	20.0	2.7	21.5	593	L45550-E331-B66
37 x 1	NRPE	0.6/1.0 kV	1.3	20.0	2.7	22.4	688	L45550-E371-B66
2 x 1.5	NR	0.6/1.0 kV	1.5	13.7	3.0	8.0	86	L45550-F21-B56
2 x 1.5	LN	0.6/1.0 kV	1.5	13.7	3.0	8.0	86	L45550-F21-B76
3 x 1.5	NR	0.6/1.0 kV	1.5	13.7	3.0	9.0	108	L45550-F31-B56
3 x 1.5	LNPE	0.6/1.0 kV	1.5	13.7	3.0	9.0	108	L45550-F31-B76
3 x 1.5	NRPE	0.6/1.0 kV	1.5	13.7	3.0	9.0	108	L45550-F31-B66
4 x 1.5	NR	0.6/1.0 kV	1.5	13.7	3.0	9.8	142	L45550-F41-B56
4 x 1.5	2LNPE	0.6/1.0 kV	1.5	13.7	3.0	9.8	142	L45550-F41-B76
4 x 1.5	3LPE	0.6/1.0 kV	1.5	13.7	3.0	9.8	142	L45550-F41-B86
5 x 1.5	NR	0.6/1.0 kV	1.5	13.7	3.0	10.8	175	L45550-F51-B56
5 x 1.5	3LNPE	0.6/1.0 kV	1.5	13.7	3.0	10.8	175	L45550-F51-B76
5 x 1.5	NRPE	0.6/1.0 kV	1.5	13.7	3.0	10.8	175	L45550-F51-B66
6 x 1.5	NRPE	0.6/1.0 kV	1.5	13.7	3.0	11.7	220	L45550-F61-B66
7 x 1.5	NRPE	0.6/1.0 kV	1.5	13.7	3.0	12.7	265	L45550-F71-B66
10 x 1.5	NR	0.6/1.0 kV	1.5	13.7	3.0	15.0	349	L45550-F101-B56
10 x 1.5	NRPE	0.6/1.0 kV	1.5	13.7	3.0	15.0	349	L45550-F101-B66
12 x 1.5	NRPE	0.6/1.0 kV	1.5	13.7	3.0	15.8	396	L45550-F121-B66
14 x 1.5	NRPE	0.6/1.0 kV	1.5	13.7	3.0	16.5	421	L45550-F141-B66
16 x 1.5	NRPE	0.6/1.0 kV	1.5	13.7	3.0	17.4	480	L45550-F161-B66
19 x 1.5	NRPE	0.6/1.0 kV	1.5	13.7	3.0	18.4	511	L45550-F191-B66
21 x 1.5	NRPE	0.6/1.0 kV	1.5	13.7	3.0	19.4	592	L45550-F211-B66
24 x 1.5	NRPE	0.6/1.0 kV	1.5	13.7	3.0	21.6	649	L45550-F241-B66
25 x 1.5	NRPE	0.6/1.0 kV	1.5	13.7	3.0	21.6	688	L45550-F251-B66
27 x 1.5	NRPE	0.6/1.0 kV	1.5	13.7	3.0	22.3	711	L45550-F271-B66
30 x 1.5	NRPE	0.6/1.0 kV	1.5	13.7	3.0	22.9	771	L45550-F301-B66
33 x 1.5	NRPE	0.6/1.0 kV	1.5	13.7	3.0	23.9	862	L45550-F331-B66
37 x 1.5	NRPE	0.6/1.0 kV	1.5	13.7	3.0	24.9	977	L45550-F371-B66
2 x 2.5	NR	0.6/1.0 kV	2.0	8.2	3.5	9.5	118	L45550-G21-B56
2 x 2.5	LN	0.6/1.0 kV	2.0	8.2	3.5	9.5	118	L45550-G21-B76
3 x 2.5	NRPE	0.6/1.0 kV	2.0	8.2	3.5	10.0	156	L45550-G31-B66
3 x 2.5	NR	0.6/1.0 kV	2.0	8.2	3.5	10.0	156	L45550-G31-B56
3 x 2.5	LNPE	0.6/1.0 kV	2.0	8.2	3.5	10.0	156	L45550-G31-B76
4 x 2.5	NR	0.6/1.0 kV	2.0	8.2	3.5	11.1	211	L45550-G41-B56
4 x 2.5	3LPE	0.6/1.0 kV	2.0	8.2	3.5	11.1	211	L45550-G41-B86
4 x 2.5	2LNPE	0.6/1.0 kV	2.0	8.2	3.5	11.1	211	L45550-G41-B76
5 x 2.5	3LNPE	0.6/1.0 kV	2.0	8.2	3.5	12.2	255	L45550-G51-B76
6 x 2.5	NR	0.6/1.0 kV	2.0	8.2	3.5	13.4	306	L45550-G61-B56
6 x 2.5	NRPE	0.6/1.0 kV	2.0	8.2	3.5	13.4	306	L45550-G61-B66
7 x 2.5	NRPE	0.6/1.0 kV	2.0	8.2	3.5	14.6	347	L45550-G71-B66
8 x 2.5	NRPE	0.6/1.0 kV	2.0	8.2	3.5	15.8	386	L45550-G81-B66
10 x 2.5	NR	0.6/1.0 kV	2.0	8.2	3.5	17.2	481	L45550-G101-B56
12 x 2.5	NRPE	0.6/1.0 kV	2.0	8.2	3.5	18.1	501	L45550-G121-B66
14 x 2.5	NRPE	0.6/1.0 kV	2.0	8.2	3.5	18.8	584	L45550-G141-B66
16 x 2.5	NRPE	0.6/1.0 kV	2.0	8.2	3.5	20.0	668	L45550-G161-B66
19 x 2.5	NRPE	0.6/1.0 kV	2.0	8.2	3.5	21.1	793	L45550-G191-B66
21 x 2.5	NRPE	0.6/1.0 kV	2.0	8.2	3.5	22.2	871	L45550-G211-B66

Core colors HD 308 S2 (DIN VDE 0293-308): NR › ● numbered NRPE › ● numbered + ◔
LN › ●● LNPE › ●●◔ 3LPE › ●●●◔ 2LNPE › ●●●◔ 3LNPE › ●●●◔

TYPE DESCRIPTION › LIHH-

BizLink SeaLine® Temp 145 – Unshielded design

Cross section n x mm²	Cores	Operating voltage AC V	Conductor Ø mm	Conductor resistance Ω/km	Core Ø mm	Outer Ø nom. mm	Weight nom. kg/km	Order no.
24 x 2.5	NRPE	0.6/1.0 kV	2.0	8.2	3.5	24.9	987	L45550-G241-B66
2 x 4	NR	0.6/1.0 kV	2.6	5.1	4.1	10.8	160	L45550-H21-B56
2 x 4	LN	0.6/1.0 kV	2.6	5.1	4.1	10.8	160	L45550-H21-B76
3 x 4	LNPE	0.6/1.0 kV	2.6	5.1	4.1	11.6	198	L45550-H31-B76
4 x 4	NR	0.6/1.0 kV	2.6	5.1	4.1	12.7	262	L45550-H41-B56
4 x 4	3LPE	0.6/1.0 kV	2.6	5.1	4.1	12.7	262	L45550-H41-B86
5 x 4	3LNPE	0.6/1.0 kV	2.6	5.1	4.1	14.0	327	L45550-H51-B76
6 x 4	NRPE	0.6/1.0 kV	2.6	5.1	4.1	15.3	393	L45550-H61-B66
7 x 4	NRPE	0.6/1.0 kV	2.6	5.1	4.1	16.6	459	L45550-H71-B66
8 x 4	NRPE	0.6/1.0 kV	2.6	5.1	4.1	18.2	525	L45550-H81-B66
10 x 4	NRPE	0.6/1.0 kV	2.6	5.1	4.1	19.9	657	L45550-H101-B66
12 x 4	NRPE	0.6/1.0 kV	2.6	5.1	4.1	20.8	697	L45550-H121-B66
14 x 4	NRPE	0.6/1.0 kV	2.6	5.1	4.1	21.7	818	L45550-H141-B66
2 x 6	LN	0.6/1.0 kV	3.1	3.4	4.7	12.2	218	L45550-J21-B76
2 x 6	NR	0.6/1.0 kV	3.1	3.4	4.7	12.2	218	L45550-J21-B56
3 x 6	LNPE	0.6/1.0 kV	3.1	3.4	4.7	12.9	290	L45550-J31-B76
4 x 6	3LPE	0.6/1.0 kV	3.1	3.4	4.7	14.3	352	L45550-J41-B86
4 x 6	2LNPE	0.6/1.0 kV	3.1	3.4	4.7	14.3	352	L45550-J41-B76
4 x 6	NR	0.6/1.0 kV	3.1	3.4	4.7	14.3	352	L45550-J41-B56
5 x 6	3LNPE	0.6/1.0 kV	3.1	3.4	4.7	15.8	435	L45550-J51-B76
6 x 6	NR	0.6/1.0 kV	3.1	3.4	4.7	17.3	531	L45550-J61-B56
7 x 6	NRPE	0.6/1.0 kV	3.1	3.4	4.7	18.9	624	L45550-J61-B66
2 x 10	LN	0.6/1.0 kV	4.4	1.95	6.0	15.1	360	L45550-J21-B176
3 x 10	NR	0.6/1.0 kV	4.4	1.95	6.0	16.1	442	L45550-J31-B156
4 x 10	3LPE	0.6/1.0 kV	4.4	1.95	6.0	17.9	588	L45550-J41-B186
4 x 10	2LNPE	0.6/1.0 kV	4.4	1.95	6.0	17.9	588	L45550-J41-B176
5 x 10	3LNPE	0.6/1.0 kV	4.4	1.95	6.0	19.7	725	L45550-J51-B176
6 x 10	NRPE	0.6/1.0 kV	4.4	1.95	6.0	21.6	858	L45550-J61-B166
7 x 10	NRPE	0.6/1.0 kV	4.4	1.95	6.0	23.6	997	L45550-J71-B166
2 x 16	LN	0.6/1.0 kV	5.4	1.3	7.0	17.3	496	L45550-K21-B76
3 x 16	LNPE	0.6/1.0 kV	5.4	1.3	7.0	18.5	658	L45550-K31-B76
4 x 16	3LPE	0.6/1.0 kV	5.4	1.3	7.0	20.8	864	L45550-K41-B86
4 x 16	2LNPE	0.6/1.0 kV	5.4	1.3	7.0	20.8	864	L45550-K41-B76
5 x 16	3LNPE	0.6/1.0 kV	5.4	1.3	7.0	22.9	1080	L45550-K51-B76
6 x 16	NRPE	0.6/1.0 kV	5.4	1.3	7.0	25.2	1276	L45550-K61-B66
7 x 16	NRPE	0.6/1.0 kV	5.4	1.3	7.0	27.5	1469	L45550-K71-B66
3 x 25	LN	0.6/1.0 kV	7.2	0.795	9.4	22.8	762	L45550-M21-B76
3 x 25	NR	0.6/1.0 kV	7.2	0.795	9.4	24.4	1002	L45550-M31-B56
4 x 25	3LPE	0.6/1.0 kV	7.2	0.795	9.4	27.0	1332	L45550-M41-B86
5 x 25	3LNPE	0.6/1.0 kV	7.2	0.795	9.4	29.9	1690	L45550-M51-B76
6 x 25	NRPE	0.6/1.0 kV	7.2	0.795	9.4	33.0	2011	L45550-M61-B66
7 x 25	NRPE	0.6/1.0 kV	7.2	0.795	9.4	33.0	2156	L45550-M71-B66
2 x 35	LN	0.6/1.0 kV	7.7	0.565	10.0	24.1	1094	L45550-M21-B176
3 x 35	LNPE	0.6/1.0 kV	7.7	0.565	10.0	25.8	1367	L45550-M31-B176
4 x 35	NRPE	0.6/1.0 kV	7.7	0.565	10.0	28.6	1765	L45550-M41-B166
5 x 35	3LNPE	0.6/1.0 kV	7.7	0.565	10.0	31.7	2211	L45550-M51-B176

Core colors HD 308 S2 (DIN VDE 0293-308): NR › ● numbered NRPE › ● numbered + ◔
LN › ●● LNPE › ●●◔ 3LPE › ●●●◔ 2LNPE › ●●●◔ 3LNPE › ●●●◔

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