



Certificate no.:
TAE0000429

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Cable Tray

with type designation(s)
Cablofil series FC, series CF, series HDF

issued to

Bticino S.p.A.
Varese, VA, Italy

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Material	Metallic
Suitable for open deck	Yes

Issued at **Hamburg** on **2024-11-29**

This Certificate is valid until **2029-11-28**.

for **DNV**

DNV local unit: **Italy/Malta CMC**

Approval Engineer: **Carsten Hunsalz**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

Cable Tray type FC

6.1 Material:	Metallic
6.2 Flame propagation:	Non-flame propagating system
6.3 Electrical continuity:	With electrical continuity characteristics
6.4 Electrical conductivity	Electrical conductive
6.5 Resistance against corrosion:	Class 3 Finishing EZ Class 8 Finishing HR Class 9A Finishing AISI 304L (class II) Class 9B Finishing AISI 316L (class III)
6.6 Temperature:	-20°C to 90°C
6.7 Perforation in the base area:	Classification D
6.8 Free base area:	Classification Y
6.9 Impact resistance	5J

Cable Tray type CF

6.1 Material:	Metallic
6.2 Flame propagation:	Non-flame propagating system
6.3 Electrical continuity:	With electrical continuity characteristics
6.4 Electrical conductivity	Electrical conductive
6.5 Resistance against corrosion:	Class 3 Finishing EZ Class 8 Finishing HR Class 9A Finishing AISI 304L (class II) Class 9B Finishing AISI 316L (class III)
6.6 Temperature:	-20°C to 90°C
6.7 Perforation in the base area:	Classification D
6.8 Free base area:	Classification Y
6.9 Impact resistance	5J

Cable Tray type HDF

6.1 Material:	Metallic
6.2 Flame propagation:	Non-flame propagating system
6.3 Electrical continuity:	With electrical continuity characteristics
6.4 Electrical conductivity	Electrical conductive
6.5 Resistance against corrosion:	Class 3 Finishing EZ Class 9B Finishing AISI 316L (class III)
6.6 Temperature:	-20°C to 90°C
6.7 Perforation in the base area:	Classification D
6.8 Free base area:	Classification Y
6.9 Impact resistance	5J

Cable tray lengths

Finishing					Description	Width	Height	SPAN	Safety Working Load		
EZ	HR	HDG	AISI 304L	AISI 316L					10.3.3	10.5.1	10.6
200011	200016	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	50 mm	30 mm	1,5 m	70 N/m	70 N/m	70 N/m
200021	200026	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	100 mm	30 mm	1,5 m	70 N/m	70 N/m	70 N/m
200031	200036	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	150 mm	30 mm	1,5 m	70 N/m	70 N/m	70 N/m
200041	200046	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	200 mm	30 mm	1,5 m	130 N/m	130 N/m	130 N/m
200051	200056	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	300 mm	30 mm	1,5 m	170 N/m	170 N/m	170 N/m
200801	200806	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	400 mm	30 mm	1,5 m	260 N/m	260 N/m	260 N/m
200831	200836	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	450 mm	30 mm	1,5 m	260 N/m	260 N/m	260 N/m
200811	200816	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	500 mm	30 mm	1,5 m	260 N/m	260 N/m	260 N/m
200851	200856	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	600 mm	30 mm	1,5 m	260 N/m	260 N/m	260 N/m
200061	200066	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	50 mm	54 mm	2 m	140 N/m	140 N/m	140 N/m
200071	200076	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	100 mm	54 mm	2 m	140 N/m	140 N/m	140 N/m
200081	200086	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	150 mm	54 mm	2 m	200 N/m	200 N/m	200 N/m
200091	200096	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	200 mm	54 mm	2 m	280 N/m	280 N/m	280 N/m
200101	200106	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	300 mm	54 mm	2 m	360 N/m	360 N/m	360 N/m
200201	200206	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	400 mm	54 mm	2 m	450 N/m	450 N/m	450 N/m
200251	200256	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	450 mm	54 mm	2 m	450 N/m	450 N/m	450 N/m
200301	200306	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	500 mm	54 mm	2 m	500 N/m	500 N/m	500 N/m
200401	200406	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	600 mm	54 mm	2 m	550 N/m	550 N/m	550 N/m
200891	200896	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	100 mm	105 mm	2 m	330 N/m	330 N/m	330 N/m
200901	200906	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	150 mm	105 mm	2 m	450 N/m	450 N/m	450 N/m
200911	200916	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	200 mm	105 mm	2 m	510 N/m	510 N/m	510 N/m
200921	200926	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	300 mm	105 mm	2 m	770 N/m	770 N/m	770 N/m
200931	200936	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	400 mm	105 mm	2 m	830 N/m	830 N/m	830 N/m
201931	201936	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	450 mm	105 mm	2 m	830 N/m	830 N/m	830 N/m
200941	200946	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	500 mm	105 mm	2 m	900 N/m	900 N/m	900 N/m
201031	201036	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	600 mm	105 mm	2 m	940 N/m	940 N/m	940 N/m
200951	200956	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	200 mm	150 mm	1,5 m	940 N/m	940 N/m	940 N/m
200961	200966	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	300 mm	150 mm	1,5 m	1130 N/m	1130 N/m	1130 N/m

Cable tray lengths

Finishing						Description	Width	Height	SPAN	Safety Working Load		
EZ	HR	HDG	ASTI 304L	ASTI 316L						10.3.3	10.5.1	10.6
200971	200976	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	400 mm	150 mm	1,5 m	1180 N/m	1180 N/m	1180 N/m	1180 N/m
201011	201016	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	450 mm	150 mm	1,5 m	1180 N/m	1180 N/m	1180 N/m	1180 N/m
201021	201026	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	500 mm	150 mm	1,5 m	1300 N/m	1300 N/m	1300 N/m	1300 N/m
201041	201046	---	---	---	Wire mesh cable tray/length (automatic coupling system FC)	600 mm	150 mm	1,5 m	1530 N/m	1530 N/m	1530 N/m	1530 N/m
---	---	---	200018	200014	Wire mesh cable tray/length (automatic coupling system FC)	50 mm	30 mm	1,5 m	70 N/m	70 N/m	70 N/m	70 N/m
---	---	---	200028	200024	Wire mesh cable tray/length (automatic coupling system FC)	100 mm	30 mm	1,5 m	70 N/m	70 N/m	70 N/m	70 N/m
---	---	---	200038	200034	Wire mesh cable tray/length (automatic coupling system FC)	150 mm	30 mm	1,5 m	70 N/m	70 N/m	70 N/m	70 N/m
---	---	---	200048	200044	Wire mesh cable tray/length (automatic coupling system FC)	200 mm	30 mm	1,5 m	130 N/m	130 N/m	130 N/m	130 N/m
---	---	---	200058	200054	Wire mesh cable tray/length (automatic coupling system FC)	300 mm	30 mm	1,5 m	170 N/m	170 N/m	170 N/m	170 N/m
---	---	---	200808	200804	Wire mesh cable tray/length (automatic coupling system FC)	400 mm	30 mm	1,5 m	260 N/m	260 N/m	260 N/m	260 N/m
---	---	---	200818	200814	Wire mesh cable tray/length (automatic coupling system FC)	500 mm	30 mm	1,5 m	260 N/m	260 N/m	260 N/m	260 N/m
---	---	---	200858	200854	Wire mesh cable tray/length (automatic coupling system FC)	600 mm	30 mm	1,5 m	260 N/m	260 N/m	260 N/m	260 N/m
---	---	---	200068	200064	Wire mesh cable tray/length (automatic coupling system FC)	50 mm	54 mm	1,5 m	100 N/m	100 N/m	100 N/m	100 N/m
---	---	---	200078	200074	Wire mesh cable tray/length (automatic coupling system FC)	100 mm	54 mm	1,5 m	160 N/m	160 N/m	160 N/m	160 N/m
---	---	---	200088	200084	Wire mesh cable tray/length (automatic coupling system FC)	150 mm	54 mm	1,5 m	160 N/m	160 N/m	160 N/m	160 N/m
---	---	---	200098	200094	Wire mesh cable tray/length (automatic coupling system FC)	200 mm	54 mm	1,5 m	260 N/m	260 N/m	260 N/m	260 N/m
---	---	---	200108	200104	Wire mesh cable tray/length (automatic coupling system FC)	300 mm	54 mm	1,5 m	350 N/m	350 N/m	350 N/m	350 N/m
---	---	---	200208	200204	Wire mesh cable tray/length (automatic coupling system FC)	400 mm	54 mm	1,5 m	410 N/m	410 N/m	410 N/m	410 N/m
---	---	---	200258	200254	Wire mesh cable tray/length (automatic coupling system FC)	450 mm	54 mm	1,5 m	520 N/m	520 N/m	520 N/m	520 N/m
---	---	---	200308	200304	Wire mesh cable tray/length (automatic coupling system FC)	500 mm	54 mm	1,5 m	630 N/m	630 N/m	630 N/m	630 N/m
---	---	---	200408	200404	Wire mesh cable tray/length (automatic coupling system FC)	600 mm	54 mm	1,5 m	700 N/m	700 N/m	700 N/m	700 N/m
---	---	---	200898	200894	Wire mesh cable tray/length (automatic coupling system FC)	100 mm	105 mm	1,5 m	340 N/m	340 N/m	340 N/m	340 N/m
---	---	---	200908	200904	Wire mesh cable tray/length (automatic coupling system FC)	150 mm	105 mm	1,5 m	340 N/m	340 N/m	340 N/m	340 N/m
---	---	---	200918	200914	Wire mesh cable tray/length (automatic coupling system FC)	200 mm	105 mm	1,5 m	460 N/m	460 N/m	460 N/m	460 N/m
---	---	---	200928	200924	Wire mesh cable tray/length (automatic coupling system FC)	300 mm	105 mm	1,5 m	630 N/m	630 N/m	630 N/m	630 N/m
---	---	---	200938	200934	Wire mesh cable tray/length (automatic coupling system FC)	400 mm	105 mm	1,5 m	750 N/m	750 N/m	750 N/m	750 N/m
---	---	---	201938	201934	Wire mesh cable tray/length (automatic coupling system FC)	450 mm	105 mm	1,5 m	800 N/m	800 N/m	800 N/m	800 N/m
---	---	---	200948	200944	Wire mesh cable tray/length (automatic coupling system FC)	500 mm	105 mm	1,5 m	860 N/m	860 N/m	860 N/m	860 N/m



Cable tray lengths

Finishing				Description	Width	Height	SPAN	Safety Working Load		
EZ	HR	HDG	AISI 304L					10.3.3	10.5.1	10.6
---	---	---	201038	201034	Wire mesh cable tray/length (automatic coupling system FC)	600 mm	105 mm	1,5 m	860 N/m	860 N/m
000061	000066	---	---	---	Wire mesh cable tray/length (standard coupler CF)	50 mm	54 mm	2 m	140 N/m	140 N/m
000071	000076	---	---	---	Wire mesh cable tray/length (standard coupler CF)	100 mm	54 mm	2 m	140 N/m	140 N/m
000081	000086	---	---	---	Wire mesh cable tray/length (standard coupler CF)	150 mm	54 mm	2 m	200 N/m	200 N/m
000091	000096	---	---	---	Wire mesh cable tray/length (standard coupler CF)	200 mm	54 mm	2 m	280 N/m	280 N/m
000101	000106	---	---	---	Wire mesh cable tray/length (standard coupler CF)	300 mm	54 mm	2 m	360 N/m	360 N/m
000201	000206	---	---	---	Wire mesh cable tray/length (standard coupler CF)	400 mm	54 mm	2 m	450 N/m	450 N/m
000251	000256	---	---	---	Wire mesh cable tray/length (standard coupler CF)	450 mm	54 mm	2 m	450 N/m	450 N/m
000301	000306	---	---	---	Wire mesh cable tray/length (standard coupler CF)	500 mm	54 mm	2 m	500 N/m	500 N/m
000401	000406	---	---	---	Wire mesh cable tray/length (standard coupler CF)	600 mm	54 mm	2 m	550 N/m	550 N/m
000891	000896	---	---	---	Wire mesh cable tray/length (standard coupler CF)	100 mm	105 mm	2 m	330 N/m	330 N/m
000901	000906	---	---	---	Wire mesh cable tray/length (standard coupler CF)	150 mm	105 mm	2 m	450 N/m	450 N/m
000911	000916	---	---	---	Wire mesh cable tray/length (standard coupler CF)	200 mm	105 mm	2 m	510 N/m	510 N/m
000921	000926	---	---	---	Wire mesh cable tray/length (standard coupler CF)	300 mm	105 mm	2 m	770 N/m	770 N/m
000931	000936	---	---	---	Wire mesh cable tray/length (standard coupler CF)	400 mm	105 mm	2 m	830 N/m	830 N/m
000941	000946	---	---	---	Wire mesh cable tray/length (standard coupler CF)	500 mm	105 mm	2 m	900 N/m	900 N/m
---	---	---	000068	000064	Wire mesh cable tray/length (standard coupler CF)	50 mm	54 mm	1,5 m	100 N/m	100 N/m
---	---	---	000078	000074	Wire mesh cable tray/length (standard coupler CF)	100 mm	54 mm	1,5 m	160 N/m	160 N/m
---	---	---	000088	000084	Wire mesh cable tray/length (standard coupler CF)	150 mm	54 mm	1,5 m	160 N/m	160 N/m
---	---	---	000098	000094	Wire mesh cable tray/length (standard coupler CF)	200 mm	54 mm	1,5 m	260 N/m	260 N/m
---	---	---	000108	000104	Wire mesh cable tray/length (standard coupler CF)	300 mm	54 mm	1,5 m	350 N/m	350 N/m
---	---	---	000208	000204	Wire mesh cable tray/length (standard coupler CF)	400 mm	54 mm	1,5 m	410 N/m	410 N/m
---	---	---	000258	000254	Wire mesh cable tray/length (standard coupler CF)	450 mm	54 mm	1,5 m	520 N/m	520 N/m
---	---	---	000308	000304	Wire mesh cable tray/length (standard coupler CF)	500 mm	54 mm	1,5 m	630 N/m	630 N/m
---	---	---	000408	000404	Wire mesh cable tray/length (standard coupler CF)	600 mm	54 mm	1,5 m	700 N/m	700 N/m
---	---	---	000898	000894	Wire mesh cable tray/length (standard coupler CF)	100 mm	105 mm	1,5 m	340 N/m	340 N/m
---	---	---	000908	000904	Wire mesh cable tray/length (standard coupler CF)	150 mm	105 mm	1,5 m	340 N/m	340 N/m
---	---	---	000918	000914	Wire mesh cable tray/length (standard coupler CF)	200 mm	105 mm	1,5 m	460 N/m	460 N/m



Cable tray lengths

Finishing					Description	Width	Height	SPAN	Safety Working Load		
EZ	HR	HDG	ALSI 304L	ALSI 316L					10.3.3	10.5.1	10.6
---	---	---	000928	000924	Wire mesh cable tray length (standard coupler CF)	300 mm	105 mm	1,5 m	630 N/m	630 N/m	630 N/m
---	---	---	000938	000934	Wire mesh cable tray length (standard coupler CF)	400 mm	105 mm	1,5 m	750 N/m	750 N/m	750 N/m
---	---	---	000948	000944	Wire mesh cable tray length (standard coupler CF)	500 mm	105 mm	1,5 m	860 N/m	860 N/m	860 N/m
450071	---	---	---	---	Reinforced HDf wire mesh cable tray length (standard coupler)	100 mm	54 mm	2 m	280 N/m	280 N/m	280 N/m
450091	---	---	---	---	Reinforced HDf wire mesh cable tray length (standard coupler)	200 mm	54 mm	2 m	290 N/m	290 N/m	290 N/m
450101	---	---	---	---	Reinforced HDf wire mesh cable tray length (standard coupler)	300 mm	54 mm	2 m	480 N/m	480 N/m	480 N/m
450621	---	---	---	450624	Reinforced HDf wire mesh cable tray length (standard coupler)	100 mm	105 mm	2 m	550 N/m	550 N/m	550 N/m
450631	---	---	---	450634	Reinforced HDf wire mesh cable tray length (standard coupler)	150 mm	105 mm	2 m	550 N/m	550 N/m	550 N/m
450641	---	---	---	450644	Reinforced HDf wire mesh cable tray length (standard coupler)	200 mm	105 mm	2 m	700 N/m	700 N/m	700 N/m
450661	---	---	---	450664	Reinforced HDf wire mesh cable tray length (standard coupler)	300 mm	105 mm	2 m	850 N/m	850 N/m	850 N/m
450681	---	---	---	450684	Reinforced HDf wire mesh cable tray length (standard coupler)	400 mm	105 mm	2 m	1200 N/m	1200 N/m	1200 N/m
450691	---	---	---	450694	Reinforced HDf wire mesh cable tray length (standard coupler)	450 mm	105 mm	2 m	1200 N/m	1200 N/m	1200 N/m
450701	---	---	---	450704	Reinforced HDf wire mesh cable tray length (standard coupler)	500 mm	105 mm	2 m	1200 N/m	1200 N/m	1200 N/m
450721	---	---	---	450724	Reinforced HDf wire mesh cable tray length (standard coupler)	600 mm	105 mm	2 m	1200 N/m	1200 N/m	1200 N/m
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---	---	---	---	---	-----	---	---	---	---	---	---
558241	558246	---	---	558244	Coupler EDN for wire mesh tray CF and HDf	---	---	---	---	---	---
558081	558087	---	---	558924	Bottom coupler ASSTR for wire mesh tray CF and HDf	---	---	---	---	---	---

The code in each column is the code of the article made in the corresponding material and/or surface treatment as follows:

- Column "EZ": Electro plated steel
- Column "HR": Zinc/Aluminum steel
- Column "HDG": Hot dip galvanized steel
- Column "ALSI 304L": Column "ALSI 304L" stainless steel
- Column "ALSI 316": Column "ALSI 316L" stainless steel

Application/Limitation

To be installed in accordance with the manufacturer's instructions and DNV rules.

Suitable for open deck

Type Approval documentation

Tests carried out

Type tests in accordance with IEC 61537:2023.

Marking of product

Manufacturer – Type designation – Type - Width – Height – Length – Lot no.

Place of Production

Legrand SNC - 1, Route de Semur 21500 Montbard France .

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE