HIGH-FLEX LV REELING CABLE · RTG / RMG / STS | 3-IN-1 · POWER · CONTROL · FIBRE | 0.6/1 kV | 10 sizes | HFFR rubber | 6E9/6G50

FC-THF-M-KFH 0.6/1 kV

3-in-1 Power, Control and Fibre-Optic Reeling Cable 0.6/1 kV – 3 power cores + 3 split PE conductors + 2 control cores + hybrid element with 6 single-mode G.652.D and 6 multimode OM2 50/125 fibres, halogen-free elastomer (HFFR rubber) sheath. Complete technical data sheet: construction, dimensions, weights, current ratings, standards and installation guidance for 10 sizes.

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01 Application and Product Overview

FC-THF-M-KFH is a high-flex reeling cable for container terminals and heavy port equipment, rated 0.6/1 kV, with the configuration 3 power cores + 3 split PE conductors + 2 control cores + hybrid element with 6 single-mode G.652.D and 6 multimode OM2 50/125 fibres. It has fine-wire class 5 copper conductors, halogen-free EPR/HEPR rubber insulation, a halogen-free inner sheath and an outer sheath of halogen-free cross-linked elastomer (HFFR rubber), flame-retardant, low smoke, resistant to weather and ozone; power cores from 25 – 300 mm². Short-lay stranding makes it suitable for continuous winding on and off a cable reel under tensile and torsional load. The construction is derived from the FC-TPU-M D2X11Y platform with a rubber sheath.

Typical applications

- Cranes whose cable reel must feed the drive power together with a few control or monitoring signals through one cable
- Cranes that need both long single-mode links to the terminal and short multimode links on board through one reel
- Rubber-tyred gantry (RTG), rail-mounted gantry (RMG) and electrified RTG cranes fed through spring-driven or motor-driven cable reels
- Ship-to-shore (STS) crane auxiliary drives, automated stacking cranes, ship unloaders and bulk-handling machines in terminals
- Outdoor quayside and yard operation with exposure to seawater spray, salt mist, UV radiation and ozone
- Reeling operation at travel speeds up to 60 m/min with repeated tensile and torsional loads

Design

Combined power and control design. Three power cores, three split protective-earth (PE) conductors in the interstices and two control cores share one cable, so a single reel channel carries power, protective earth and a small number of control or monitoring signals such as an earth-continuity loop, a brake release or a limit switch. This is a 3-in-1 design in the DIN VDE 0250 reeling-cable tradition: power cores, control cores and optical fibres share one sheath, so one reel, one slip-ring/rotary-joint assembly and one cable route replace three separate cables. The cable contains one optical element (hybrid element with 6 single-mode G.652.D and 6 multimode OM2 50/125 fibres). The hybrid element carries single-mode fibres for long-distance links and OM2 multimode fibres for short local links in the same cable, so both new and existing transceivers on the crane can be served from one reel.

10 sizes	0.6/1 kV	+90 °C	Halogen-free
Cross-section 25 – 300 mm²	Rated voltage U_0/U	Maximum conductor temperature	Sheath: HFFR rubber

Key features

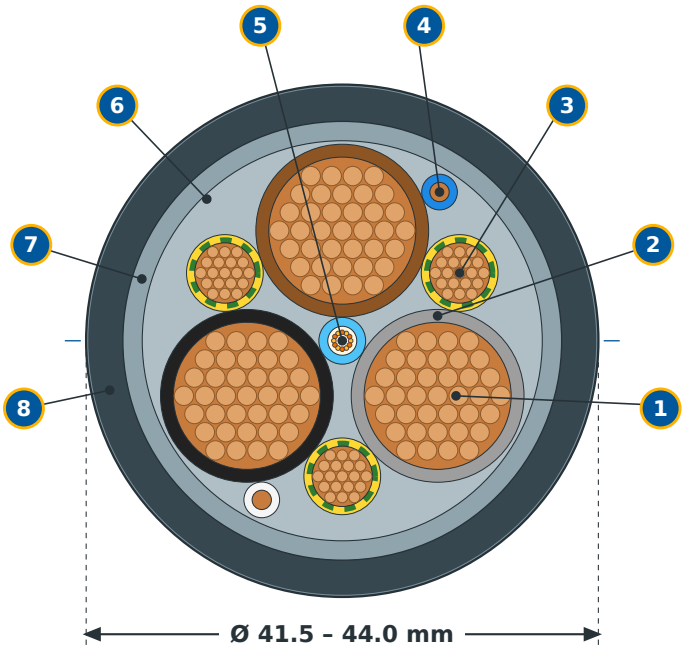
- Fine-wire class 5 copper conductors and a very short core lay length for repeated reeling
- 3-in-1 design: power, control and hybrid element with 6 single-mode G.652.D and 6 multimode OM2 50/125 fibres in a crush-resistant loose-tube element on the cable axis
- Three split PE conductors in the interstices keep the cross-section round and balanced
- Designed for 20 N/mm² continuous tensile load (on the total copper cross-section of the power cores)
- Halogen-free insulation and sheaths; no halogen acid gases when burned (IEC 60754-1/-2)
- Low smoke density to IEC 61034-2
- Flame retardant to IEC 60332-1-2

02 Construction

FEICHUN · CROSS-SECTION A-A · 0.6/1 kV

FC-THF-M-KFH

Sample size 3×95+3G16+2×1.5+6E9/6G50 · Rev 0 · Illustrative, not to scale



No.	Component	Material
1	Conductor	Bare annealed fine-wire copper, class 5 to IEC 60228
2	Insulation	Halogen-free EPR/HEPR rubber
3	Split PE conductor	Class 5 copper, green-yellow insulation, laid in the interstices between the power cores
4	Control cores	Class 5 copper, blue and white insulation
5	Optical element	Hybrid element with 6 single-mode G.652.D and 6 multimode OM2 50/125 fibres; gel-filled loose tube, aramid strength members
6	Filler and binder tape	Halogen-free compound, polyester tape
7	Inner sheath	Halogen-free polymer compound
8	Outer sheath	Halogen-free cross-linked elastomer (HFFR rubber), flame-retardant, low smoke, resistant to weather and ozone

The drawing shows size 3×95+3G16+2×1.5+6E9/6G50. Other sizes have the same construction with scaled dimensions.

Construction details

Conductor	Bare annealed fine-wire copper, class 5 to DIN EN 60228 / IEC 60228 / VDE 0295
Insulation	Halogen-free EPR/HEPR rubber to IEC 60502-1, maximum conductor temperature 90 °C
Core identification	Power cores brown, black, grey to DIN VDE 0298-300
Protective conductor	Three PE conductors (3G), green-yellow, 16 mm² each, laid in the interstices between the power cores
Control cores	Two control cores 2 × 1.5 mm² (blue, white) laid in the free space between the power cores
Optical element	One element: hybrid element with 6 single-mode G.652.D and 6 multimode OM2 50/125 fibres, located at the centre of the cable
Stranding	Power cores, split PE conductors and control or optical elements are stranded together with a very short lay length
Inner sheath	Halogen-free polymer compound, extruded tightly over the stranded cores
Outer sheath	Halogen-free cross-linked elastomer (HFFR rubber), flame-retardant, low smoke, resistant to weather and ozone

Optical fibre data

Fibre type	6 × single-mode E9/125 µm G.652.D plus 6 × multimode G50/125 µm OM2 in one element
Attenuation, cabled	SM: ≤ 0.40 dB/km at 1310 nm, ≤ 0.30 dB/km at 1550 nm; OM2: ≤ 3.0 dB/km at 850 nm, ≤ 1.0 dB/km at 1300 nm
Modal bandwidth (OM2)	≥ 500 MHz·km at 850 nm and 1300 nm
Typical link reach	SM fibres for long links to the terminal operating system; OM2 fibres for short links to on-board PLC and camera converters
Optical element	Gel-filled loose tube with aramid strength members and a crush-resistant TPU element sheath, placed on the cable axis where bending strain is lowest
Fibre colours	IEC 60304 / DIN VDE 0888 colour sequence; tube and element marked for identification
Fibre strain, reeling	≤ 0.25 % at the rated tensile load of the cable
Optical test	Attenuation of every fibre measured by OTDR after cabling; values recorded in the test certificate

Sheath material

The halogen-free, flame-retardant cross-linked elastomer (HFFR rubber) sheath combines the elasticity of a rubber reeling cable with low smoke density (IEC 61034-2) and no halogen acid gas when burned (IEC 60754-1/-2). It is the preferred choice for cable reels in tunnels, enclosed bulk-handling buildings, ship holds and other areas where people must be protected from corrosive smoke. Moving use down to −25 °C.

03 Electrical, Thermal and Mechanical Characteristics

Electrical data

Rated voltage U_0/U	0.6/1 kV AC
Test voltage	2.5 kV AC (power cores); 2 kV AC (control cores)
Maximum operating voltage, DC	0.9/1.8 kV
Current-carrying capacity	To DIN VDE 0298-4 at 30 °C ambient; the table gives rated design values
Conductor resistance	Maximum at 20 °C, class 5 to IEC 60228

Thermal and mechanical data

Maximum conductor temperature	+90 °C
Maximum temperature at short circuit	+250 °C
Ambient temperature, fixed installation	−40 °C to +90 °C
Ambient temperature, in motion	−25 °C to +90 °C
Minimum bending radius	4 × D fixed; 8 × D on a cable reel (DIN VDE 0298-3)
Maximum tensile load	20 N/mm² continuous, on the total copper cross-section of the power cores
Maximum torsional load	±50 °/m
Maximum travelling speed	60 m/min on a cable reel; higher speeds on request
Flame propagation	IEC 60332-1-2 / DIN EN 60332-1-2
Halogen-free	Yes (insulation, inner and outer sheath); IEC 60754-1/-2
UV and ozone resistance	Resistant
Mineral oil resistance	Resistant, IEC 60811-404
Optical element, temperature in operation	−40 °C to +70 °C

Sheath material comparison

Property	PUR	PUR low-temp	CSP rubber	CPE rubber	PCP rubber	HFFR rubber
Abrasion resistance	Excellent	Excellent	Good	Good	Very good	**Good**
Cut and tear resistance	Excellent	Excellent	Good	Good	Very good	**Good**
Mineral oil resistance	Very good	Very good	Very good	Very good	Very good	**Good**
Weather, UV and ozone resistance	Very good	Very good	Excellent	Very good	Excellent	**Very good**
Cold flexibility (moving)	−30 °C	−40 °C	−30 °C	−30 °C	−25 °C	**−25 °C**
Halogen-free (IEC 60754-1/-2)	Yes	Yes	No	No	No	**Yes**

The column of the sheath used in this cable is highlighted. Ratings are qualitative; ask FeiChun for test data on a specific requirement.

04 Dimensions, Weights and Rated Data – 0.6/1 kV (10 sizes)

Type designation cores × mm²	FeiChun article no.	Conductor Ø max mm	Outer Ø min mm	Outer Ø max mm	Min. bend radius mm	Weight approx. kg/km	Max. pull force N	R_{20} max Ω/km	Rated current A	I_k (1 s) kA
3×25+3G6+2×1+6E9/6G50	FC-LV197-001	6.2	22.6	24.0	192	1,180	1,500	0.780	131	3.58
3×35+3G6+2×1.5+6E9/6G50	FC-LV197-002	7.8	26.5	28.5	228	1,600	2,100	0.554	162	5.00
3×50+3G10+2×1.5+6E9/6G50	FC-LV197-003	9.6	31.0	33.0	264	2,290	3,000	0.386	202	7.15
3×70+3G16+2×1.5+6E9/6G50	FC-LV197-004	11.1	36.5	38.5	308	3,240	4,200	0.272	250	10.01
3×95+3G16+2×1.5+6E9/6G50	FC-LV197-005	12.6	41.5	44.0	352	3,890	5,700	0.206	302	13.59
3×120+3G25+2×1.5+6E9/6G50	FC-LV197-006	14.8	45.0	47.5	380	5,000	7,200	0.161	350	17.16
3×150+3G25+2×1.5+6E9/6G50	FC-LV197-007	16.0	50.5	53.5	428	6,040	9,000	0.129	402	21.45
3×185+3G35+2×1.5+6E9/6G50	FC-LV197-008	17.7	54.0	57.5	460	7,590	11,100	0.106	459	26.45
3×240+3G50+2×1.5+6E9/6G50	FC-LV197-009	20.2	61.5	65.5	524	9,930	14,400	0.0801	540	34.32
3×300+3G50+2×1.5+6E9/6G50	FC-LV197-010	22.4	67.0	71.5	572	11,900	18,000	0.0641	621	42.90

Current-carrying capacity: rated design values to DIN VDE 0298-4 for flexible cables, free air, 30 °C ambient; for other ambient temperatures, grouping or layered winding on a reel, apply the factors below. Pull force = 20 N/mm² × total copper cross-section of the power cores. Diameters, dimensions and weights are nominal design values and vary within manufacturing tolerances; confirm critical dimensions before dimensioning reels, guides or festoon systems. Other sizes and configurations are produced to order.

Ambient temperature factors (conductor 90 °C)

°C	20	25	30	35	40	45	50
Factor	1.08	1.04	1.00	0.96	0.91	0.87	0.82

Short-circuit current rating

I_k = 0.143 kA/mm² × cross-section of the power core (conductor 90 °C → 250 °C). For another short-circuit duration t: $I_{k,t} = I_{k,1s} / \sqrt{t}$ (0.1 s ≤ t ≤ 5 s).

Derating on a cable reel (DIN VDE 0298-4)

1 layer: 0.80 · 2 layers: 0.61 · 3 layers: 0.49 · 4 layers: 0.41. Permissible current = table current × layer factor × temperature factor.

05 Reeling Performance and Reel Design Data

The values below support the dimensioning of the cable reel: minimum reel core diameter, copper weight for earthing and loop-resistance calculations, cable weight, and the rated current for the number of layers wound on the reel.

Type designation cores × mm²	Outer Ø max mm	Min. bend radius on reel, mm	Min. reel core Ø mm	Copper weight kg/km	Cable weight kg/100 m	Current, 1 layer A	2 layers A	3 layers A	4 layers A
3×25+3G6+2×1+6E9/6G50	24.0	192	384	840	118.0	105	80	64	54
3×35+3G6+2×1.5+6E9/6G50	28.5	228	456	1,120	160.0	130	99	79	66
3×50+3G10+2×1.5+6E9/6G50	33.0	264	528	1,630	229.0	162	123	99	83
3×70+3G16+2×1.5+6E9/6G50	38.5	308	616	2,320	324.0	200	152	122	102
3×95+3G16+2×1.5+6E9/6G50	44.0	352	704	2,990	389.0	242	184	148	124
3×120+3G25+2×1.5+6E9/6G50	47.5	380	760	3,890	500.0	280	214	172	144
3×150+3G25+2×1.5+6E9/6G50	53.5	428	856	4,690	604.0	322	245	197	165
3×185+3G35+2×1.5+6E9/6G50	57.5	460	920	5,890	759.0	367	280	225	188
3×240+3G50+2×1.5+6E9/6G50	65.5	524	1,048	7,760	993.0	432	329	265	221
3×300+3G50+2×1.5+6E9/6G50	71.5	572	1,144	9,360	1,190.0	497	379	304	255

Reel design guidance

- Minimum reel core diameter = 2 × minimum bending radius = 16 × D (outer diameter D).
- Spring reels suit short travel and low tensile load; motor-driven reels with torque control keep the cable under constant, low tension.
- Fit a guide or level-wind that keeps the cable parallel to the reel axis to prevent crossing turns.
- Rated current falls with the number of layers on the reel because heat is not dissipated; see the layer factors below.

06 Selection Guide and Sizing Aid

FC-THF-M-KFH covers 10 sizes. The smallest, 3×25+3G6+2×1+6E9/6G50, has an outer diameter of up to 24.0 mm and weighs about 1,180 kg/km; the largest, 3×300+3G50+2×1.5+6E9/6G50, has an outer diameter of up to 71.5 mm and weighs about 11,900 kg/km, 10.1 times as much. Across the range the rated current in free air rises from 131 A to 621 A at 30 °C, and the minimum bending radius from 192 mm to 572 mm.

Example 1. A drive draws 128 A continuously, the cable is wound in 2 layers on the reel and the ambient temperature is 40 °C. Required table current = 128 / (0.61 × 0.91) = 231 A. The smallest suitable size is 3×70+3G16+2×1.5+6E9/6G50 with 250 A.

Example 2. A drive draws 284 A continuously, the cable is wound in 1 layer on the reel and the ambient temperature is 35 °C. Required table current = 284 / (0.80 × 0.96) = 370 A. The smallest suitable size is 3×150+3G25+2×1.5+6E9/6G50 with 402 A.

Type designation cores × mm²	Apparent power at 400 V kVA (1 layer)	Apparent power at 690 V kVA (1 layer)	Winding capacity m
3×25+3G6+2×1+6E9/6G50	72.6	125.2	7,345
3×35+3G6+2×1.5+6E9/6G50	89.8	154.9	5,035
3×50+3G10+2×1.5+6E9/6G50	112.0	193.1	3,655
3×70+3G16+2×1.5+6E9/6G50	138.6	239.0	2,615
3×95+3G16+2×1.5+6E9/6G50	167.4	288.7	1,970
3×120+3G25+2×1.5+6E9/6G50	194.0	334.6	1,725
3×150+3G25+2×1.5+6E9/6G50	222.8	384.3	1,265
3×185+3G35+2×1.5+6E9/6G50	254.4	438.8	1,040
3×240+3G50+2×1.5+6E9/6G50	299.3	516.3	825
3×300+3G50+2×1.5+6E9/6G50	344.2	593.7	590

Apparent power S = √3 × U × I × 0.80 (one layer on the reel, 30 °C). Winding capacity is an indicative value for a reel with 2,500 mm flange diameter, 1,000 mm traverse width, core diameter equal to the minimum reel core diameter and 90 % fill; it is not a substitute for the reel manufacturer’s calculation.

07 Standards and Testing

Standard	Scope
DIN EN 60228 / IEC 60228 / VDE 0295	Conductors, class 5
IEC 60502-1	Insulation compound, power cables up to 1 kV
DIN VDE 0298-3	Application of cables – bending radii and tensile loads
DIN VDE 0298-4	Application of cables – current-carrying capacity
DIN EN 60332-1-2 / IEC 60332-1-2	Flame propagation, single cable
DIN VDE 0298-300	Core identification
DIN VDE 0250-814	Design reference for flexible reeling and trailing cables (NSHTÖU type)
ITU-T G.652.D / IEC 60793-2-50	Single-mode optical fibres
IEC 60793-2-10	Multimode optical fibres (A1a OM2 / A1b OM1)
IEC 60794-1-21	Optical cables – mechanical test methods
IEC 60754-1 / -2	Halogen acid gas emission when burned
IEC 61034-2	Smoke density when burned
IEC 60811-404	Mineral oil immersion test

Routine and type tests

- AC voltage test on every reel length (routine test): 2.5 kV AC (power cores); 2 kV AC (control cores)
- Conductor resistance and checks of dimensions, insulation thickness and sheath thickness
- Continuity of conductors and protective earth and control cores
- Bending, tensile and reeling torsion tests (type test)
- Flame propagation (IEC 60332-1-2) and confirmation of halogen-free materials
- Optical attenuation of every fibre by OTDR after cabling (routine test); reeling and torsion tests with optical monitoring (type test)

Test documentation: every delivery is accompanied by a test certificate from FeiChun's own laboratory. Third-party witnessed tests can be arranged at the buyer's cost.

08 Installation, Marking and Delivery

Installation guidance

- Use a spring-driven or motor-driven cable reel with a core diameter of at least twice the minimum bending radius (16 × D).
- Unwind from the shipping reel tangentially; never pull the cable over the flange of the drum, and avoid loops and kinks.
- Keep torsion within the permitted limit (±50 °/m) and tensile load within the value in the table.
- Guide the cable so that it is not run over by vehicles or crushed; inspect the sheath regularly.
- Connect all parts of the split PE conductor at both ends of the cable.
- Suitable for wet conditions; consult FeiChun for continuous immersion.

Sheath marking

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FEICHUN FC-THF-M-KFH [cross-section] 0.6/1 kV [year] [serial no.] [metre mark]
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Packing and delivery

Reel	Steel or fumigated wooden reels; cable ends sealed with heat-shrink caps
Delivery length	As ordered, in one continuous length without joints
Lead time	2–3 weeks after technical approval
Warranty	1 year, covering failures not caused by human factors
Reel label	Type, cross-section, length, gross/net weight, batch no., reel no.

Ordering information

Field	Example	Meaning
Series code	FC-THF-M-KFH	FeiChun series and sheath system
Core configuration	3×95+3G16+2×1.5+6E9/6G50	Number × cross-section (mm²) of the power cores, split PE conductors (G) and control or optical elements
Rated voltage	0.6/1 kV	U_0/U, AC
Length and packing	500 m, steel reel	Delivery length in one piece; reel type on request

Order example: FC-THF-M-KFH 3×95+3G16+2×1.5+6E9/6G50 0.6/1 kV – 500 m on one steel reel. When requesting a quotation, state the cable type, configuration, cross-section, voltage, length per piece, required standards and installation conditions.

09 Certification and Quality

All cable is subject to FeiChun's quality control, with routine testing over 100 % of the delivered length. Certificates, type tests and third-party tests (for example partial discharge or compatibility with cable accessories) are provided per project requirement; copies of the records are available on request.

The CE, EAC and UKCA certificates listed in datasheet FC-TDS-TMP-2026-9238-EN apply to the FC-TPU-M D2X11Y product group. Confirm with FeiChun that the certificate scope covers this construction before quoting it in a tender.

10 Related Datasheets

Variants of this cable that differ in one attribute – sheath, configuration, optical fibres or voltage. All datasheets are in PDF format.

- FC-TPU-M D2X11Y-KFH 0.6/1 kV – 3 power cores + 3 split PE conductors + 2 control cores + hybrid element with 6 single-mode G.652.D and 6 multimode OM2 50/125 fibres, PUR
- FC-THF-M-FH 0.6/1 kV – 3 power cores + 3 split PE conductors + hybrid element with 6 single-mode G.652.D and 6 multimode OM2 50/125 fibres, HFFR rubber
- FC-THF-M 0.6/1 kV – 3 power cores + 3 split PE conductors + 2 control cores, HFFR rubber
- FC-TPU-MA D2X11Y-KFH 0.6/1 kV – 3 power cores + 3 split PE conductors + 2 control cores + hybrid element with 6 single-mode G.652.D and 6 multimode OM2 50/125 fibres, PUR low-temp
- FC-THF-M-PFH 0.6/1 kV – 3 power cores + 3 split PE conductors + 2 pilot cores 2×2.5 mm² + hybrid element with 6 single-mode G.652.D and 6 multimode OM2 50/125 fibres, HFFR rubber
- FC-THF-M-KF6 0.6/1 kV – 3 power cores + 3 split PE conductors + 2 control cores + 6 single-mode fibres G.652.D, HFFR rubber
- FC-TCS-M-KFH 0.6/1 kV – 3 power cores + 3 split PE conductors + 2 control cores + hybrid element with 6 single-mode G.652.D and 6 multimode OM2 50/125 fibres, CSP rubber
- FC-THF-M-NSFH 0.6/1 kV – 3 power cores + 3 split PE conductors + overall screen + hybrid element with 6 single-mode G.652.D and 6 multimode OM2 50/125 fibres, HFFR rubber

Overview of all datasheets: Low-Voltage Port Reeling Cables 0.6/1 kV

Frequently asked questions

What is FC-THF-M-KFH used for?
Typical applications include cranes whose cable reel must feed the drive power together with a few control or monitoring signals through one cable.

What are the outer diameter and minimum bending radius of 3×95+3G16+2×1.5+6E9/6G50?
The outer diameter is 41.5 to 44.0 mm and the minimum bending radius in moving or reeling operation is 352 mm (8 × D).

What minimum reel core diameter is needed for 3×95+3G16+2×1.5+6E9/6G50?
At least 704 mm, which is twice the minimum bending radius of 352 mm. A larger core diameter extends cable life.

What current rating applies to 3×95+3G16+2×1.5+6E9/6G50 on a cable reel?
The rated current in free air at 30 °C ambient is 302 A. Multiply it by 0.80 for one layer on the reel, 0.61 for two layers, 0.49 for three layers and 0.41 for four layers (DIN VDE 0298-4), and by the ambient temperature factor.

Which optical fibres does FC-THF-M-KFH contain?
Hybrid element with 6 single-mode G.652.D and 6 multimode OM2 50/125 fibres. SM fibres for long links to the terminal operating system; OM2 fibres for short links to on-board PLC and camera converters.

Why choose a 3-in-1 reeling cable?
One cable carries power, control signals and data, so the crane needs one reel channel, one slip-ring assembly with a fibre-optic rotary joint and one cable route. This saves reel space and weight and reduces the number of terminations to maintain.

How are the fibres connected on the reel?
Through a fibre-optic rotary joint (FORJ) on the reel axis, normally combined with the power slip-ring assembly. Match the number of FORJ channels to the number of fibres in use and keep spare fibres for later expansion.

Is this cable halogen-free?
Yes. The insulation and all sheaths are halogen-free; see section 03 for flame-retardancy and temperature data.

Which cross-sections are available?

FC-THF-M-KFH: 25, 35, 50, 70, 95, 120, 150, 185, 240, 300 mm². Other sizes and special designs can be produced to order.

11 Trademark Notice and Intellectual Property

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