

FRA 145/S Multicore

Applications

Multicore cable with improved fire performance and very high resistance to temperature designed for internal wiring in lamps, heating appliances and distribution boxes in apparatus, mechanical and plant engineering, etc. Used for fixed and flexible application in dry, humid and wet rooms.

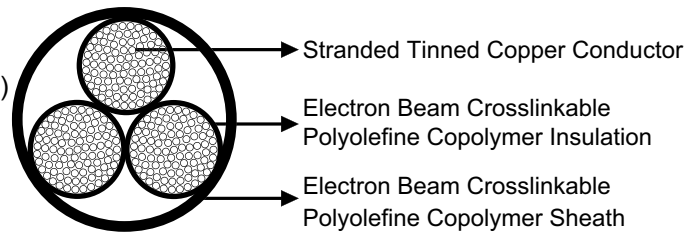


Standard

- IEC 60754-1, EN 50267-2-1 (halogen free)
- IEC 60754-2, EN 50267-2-2 (no corrosive gases)
- NES 02-713, NFC 20-454 (no toxic gases)
- IEC 61034, EN 50268-2 (low smoke density)
- IEC 60332-1, EN 50265-2-1 (flame retardant)
- IEC 60332-3, EN 50266-2, NF C 32-070

(non-flame propagating)

- DIN 51900 (low fire load)



Construction

- **Conductors:** Class 5 stranded tinned copper to IEC60228/VDE 0295.
- **Insulation:** Electron beam crosslinkable polyolefine copolymer.
- **Sheath:** Electron beam crosslinkable polyolefine copolymer.

Electrical Characteristics at 20°C

Nominal Conductor Cross Section	mm ²	0.50	0.75	1.0	1.5	2.5	4.0	6.0
Maximum Conductor Resistance	Ω/km	40.1	26.7	20.0	13.7	8.21	5.09	3.39
Voltage Rating	V	300/500V (≤1mm ²); 450/750V (≥1.5mm ²)						

Mechanical and Thermal Properties

Minimum Bending Radius: 4xOD

Temperature Range: -55°C ~+145°C



↳ Dimensions and Weight

No. of cores& Nominal Conductor Cross Sectional Area No.×mm ²	Number and Nominal Diameter of Strands No./mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
2×0.5	16/0.20	0.5	5.1	38
3×0.5	16/0.20	0.5	5.5	46
4×0.5	16/0.20	0.5	5.9	55
5×0.5	16/0.20	0.5	6.7	68
6×0.5	16/0.20	0.5	7.1	77
7×0.5	16/0.20	0.5	7.8	93
8×0.5	16/0.20	0.5	8.6	102
10×0.5	16/0.20	0.5	9.4	130
12×0.5	16/0.20	0.5	9.4	125
14×0.5	16/0.20	0.5	10.0	145
16×0.5	16/0.20	0.5	10.7	166
2×0.75	24/0.20	0.6	5.9	52
3×0.75	24/0.20	0.6	6.2	61
4×0.75	24/0.20	0.6	6.9	75
5×0.75	24/0.20	0.6	7.7	94
6×0.75	24/0.20	0.6	8.3	107
7×0.75	24/0.20	0.6	9.1	127
8×0.75	24/0.20	0.6	10.2	144
10×0.75	24/0.20	0.6	11.1	186
14×0.75	24/0.20	0.6	11.7	203
16×0.75	24/0.20	0.6	12.5	233
1×1	30/0.20	0.6	3.9	25
2×1	30/0.20	0.6	6.3	50
3×1	30/0.20	0.6	6.8	67
4×1	30/0.20	0.6	7.4	87
5×1	30/0.20	0.6	8.4	107
6×1	30/0.20	0.6	8.9	124
7×1	30/0.20	0.6	10.2	152
8×1	30/0.20	0.6	11.0	177
10×1	30/0.20	0.6	12.1	222
14×1	30/0.20	0.6	12.7	252
2×1.5	30/0.25	0.6	7.8	71
3×1.5	30/0.25	0.6	8.3	96
4×1.5	30/0.25	0.6	9.1	123
5×1.5	30/0.25	0.6	10.1	156
7×1.5	30/0.25	0.6	12.1	224
10×1.5	30/0.25	0.6	15.0	314
12×1.5	30/0.25	0.6	15.0	346
16×1.5	30/0.25	0.6	16.8	452
25×1.5	30/0.25	0.6	21.7	702
2×2.5	50/0.25	0.7	9.1	102

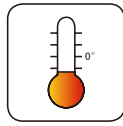
No. of cores & Nominal Conductor Cross Sectional Area No. × mm ²	Number and Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
3×2.5	50/0.25	0.7	9.9	145
4×2.5	50/0.25	0.7	10.9	189
5×2.5	50/0.25	0.7	12.2	235
7×2.5	50/0.25	0.7	14.6	344
4×4	56/0.30	0.8	12.8	268
5×4	56/0.30	0.8	14.2	334
5×6	84/0.30	0.9	15.8	494



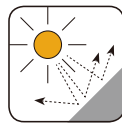
Impact Resistant



Highly Flexible



Weather Resistant



UV Resistant



Fire Retardant
NF C32-070-2.2(C1)
IEC 60332-3/EN50266



Flame Retardant
NF C32-070-2.1(C2)
IEC 60332-1/EN 50265-2-1



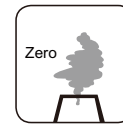
Low Corrosivity
EN 50267-2-2/NF C32-074
IEC 60754-2/NF C20-453



Low Toxicity



Low Smoke Emission
IEC 61034/NFC20-902
EN 50268/NF C32-073



Zero Halogen
IEC 60754-1/NF C20-454
EN 50267-2-1