



Caledonian

www.caledonian-cables.co.uk

Caledonian Airport Cables

- >> Airfield Lighting Cables
- >> 400Hz Cables



 **ADDISON**
www.addison-cables.com

COMPANY PROFILE

Caledonian, established in 1978, offers one of the most complete lines of fiber and copper cabling system solutions with over hundreds of different cabling system products. Our superior products provide leading edge within every cable series and for every application.

Among the national and international standards with which our cables could comply are: BS - British Standard; LPCB Fire Performance Standard, ISO Standard etc. Caledonian Cables offers a comprehensive stock of cables and cabling products through its nationwide network of resellers and distributors. Caledonian Cables has continually expanded its global presence in Europe and Asia.

Caledonian & Addison, produces a wide range of cables for communication, power and electronics in its primary plants in UK, Italy and Spain. To stay in front, we continually keep expanding our manufacturing capabilities in more low cost region such as Romania, Taiwan, Malaysia etc. This low-cost manufacturing facilities enable us provide a flexible, scalable global system that delivers superior operational performance and optimal results for our customers.

Our extensive global network of manufacturing facilities gives us significant scale and the flexibility to fulfill our customer requirements. This global presence provides design and consultancy solutions that are combined with core cable manufacturing, logistic services, and vertically integrated with our E commerce technologies, to optimize customer operations by lowering costs and reducing time to market.

Caledonian & Addison has been respected for its high standards of quality, excellent service level, competitive pricing and a unique and innovative spirit. With our latest technologies, we are both inspired and well-positioned to meet the changing needs of our customers. We have the resources to diversify and to enhance our product lines and services. We understand the need for change and with our accurate planning we are ready for the future and the promise of new marketing opportunities. Our tradition of growth through excellence is assured.

Our Design Centers work closely with customers to constantly improve its standard range of products and technologies and to develop customized, country and industry-specific solutions. Caledonian & Addison has established an extensive network of design, manufacturing, and logistics facilities in the world's major markets to serve the growing outsourcing needs of both multinational and regional customers.

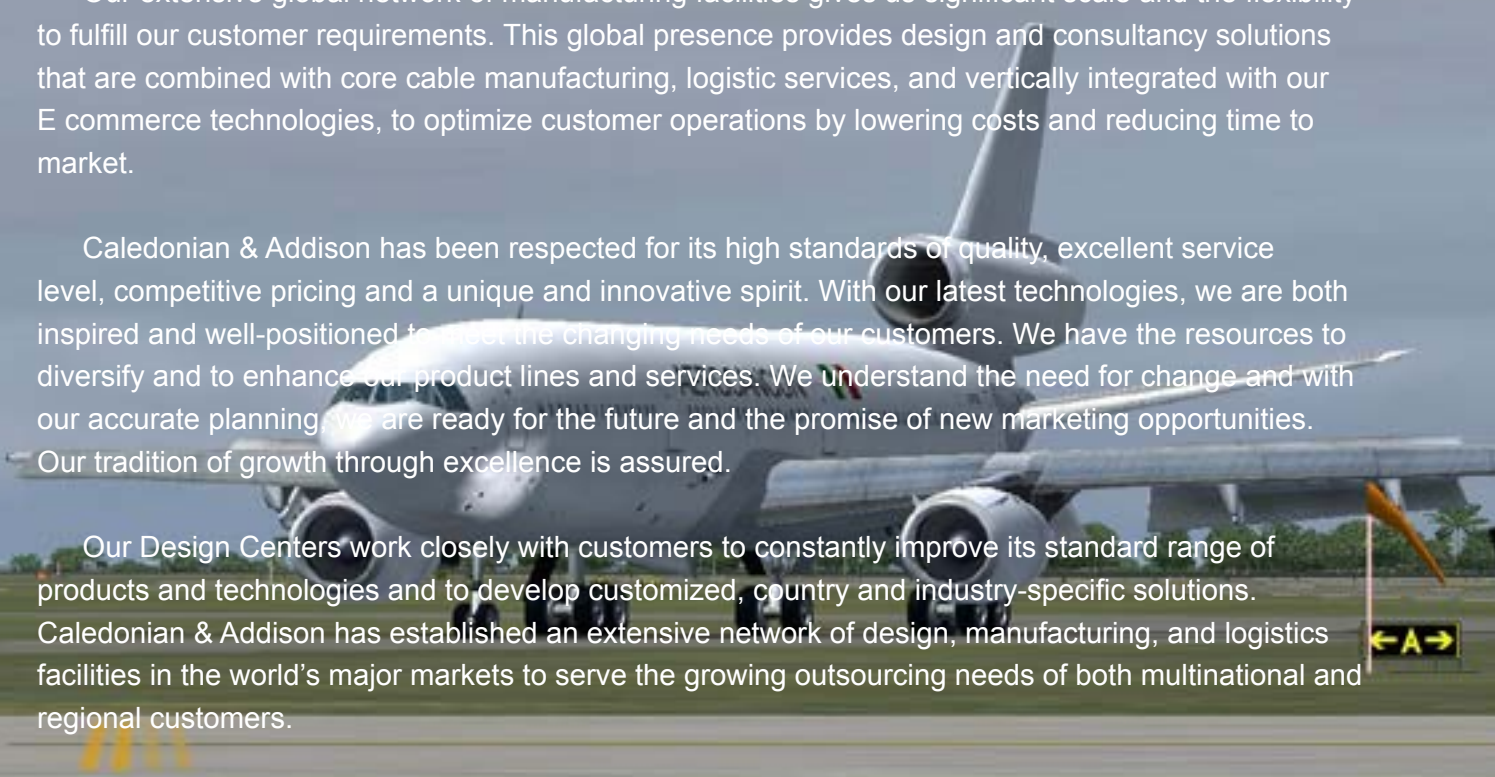




Table of Contents

» Airfield Lighting Cables

Primary Circuit Cables

C 33-224 / C33-225	1
FLYCY.....	3
FL2XCY	5
FL2XCYRY	7
RG7H1R for Airport Lighting	9
RHV.....	10
RHZ1	11
FAA L-824 Type B Unshielded 5kV	13
FAA L-824 Type B Shielded 5kV.....	15
FAA L-824 Type C 600V	17
FAA L-824 Type C Unshielded 5kV	20
FAA L-824 Type C Shielded 5kV.....	22
FAA L-824 Type C Sheathed 5kV	24

Secondary Circuit Cables

H07RN-F	26
Secondary Circuit Cable 450/750V to ADP Specification	28
FLGG	29
LYST.....	30



Table of Contents

LYAR	32
Airport Pavement Cable 600V	34

» **400Hz Cables**

400Hz Airport Cables Single Core	35
400Hz Airport Cables Single Core With Control Wires.....	36
Split Concentric Halogen Free 400Hz Airport Cable.....	38
400Hz Airport Cables 3-core With Control Wires.....	39
400Hz Airport Cables 4-core With Control Wires In The Center Cable.....	41
400Hz Airport Cables 4-core With Control Wires.....	42
400Hz Airport Cables 7-core	44
400Hz Airport Cables 7-core With Copper Wire Braid Shield	45
400Hz Airport Cables 7-core With Concentric Copper Wire Shield.....	46
400Hz Airport Cables 7-core With Copper Tape Shield.....	47
400Hz Airport Cables 7-core With Aluminium Wire Armour	48
400Hz Airport Cables 7-core With Control Wires & Reinforcement	49
400Hz Airport Cables 7-core With Reinforcement.....	51
400Hz Airport Cables 7-core With Control Wires.....	52
400Hz Airport Cables 7-core With Double Sheath & Control Wires.....	54
400Hz Airport Cables 7-core With Shielded Control Wires.....	55
400Hz Airport Cables 7-core With Concentric Copper Wire Shield & Control Wire	56
400Hz Single Core Grounding Cable.....	57

Caledonian Airport Cables

Airfield Lighting Cables



C 33-224 / C33-225

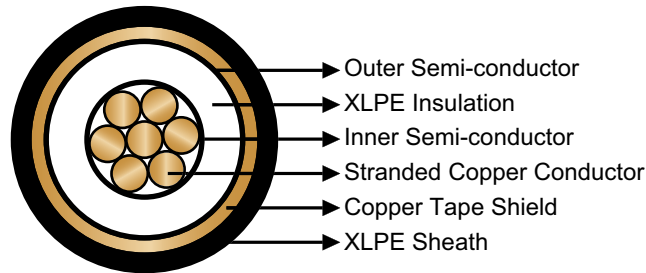
» Applications

These cables are used as airfield lighting equipment primary cables for the series circuit connecting the Constant Current Regulators and the isolating transformers, and between the isolating transformers.

» Standards

C33-224
C33-225

» Construction



Conductor: Stranded bare or tinned copper conductor.

Inner Semi-Conductor: Extruded semi-conducting compound.

Insulation: XLPE. EPDM can be offered upon request.

Outer Semi-Conductor: Extruded semi-conducting compound.

Shield: Copper tape shield. Copper wire shield can be offered upon request.

Sheath: XLPE. PVC/HFFR/CR can be offered upon request.

» Technical Data

Rated Voltage U ₀ /U (Um)	3.6/6 (7.2kV); 6/10 (12kV)
Maximum Conductor Temperature	90°C
Short Circuit Temperature	250°C
Operating Temperatures	-20°C~+70°C
Minimum Bending Radius	static: 10×OD; dynamic: 20×OD
Impacted Resistant	Yes
Weather Resistant	Yes



Caledonian Airport Cables

Airfield Lighting Cables

» Dimensions and Weight

3.6/6 (7.2kV)

Construction	No. of Strand	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Nominal Weight
No. ×mm ²	-	mm	mm	mm	kg/km
1×6	7	2.7	1.4	12.5	198

6/10 (12kV)

Construction	No. of Strand	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Nominal Weight
No. ×mm ²	-	mm	mm	mm	kg/km
1×6	7	3.6	1.6	14.7	250



Caledonian Airport Cables

Airfield Lighting Cables



FLYCY

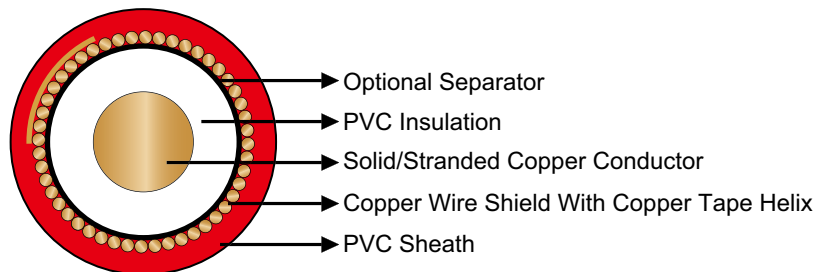
» Applications

These cables are used as airfield lighting equipment primary cables for the series circuit connecting the Constant Current Regulators and the isolating transformers, and between the isolating transformers.

» Standards

ENV 50213
IEC 60502-2
VDE 0271

» Construction



Conductor: Solid or stranded bare copper conductor.

Insulation: PVC.

Optional Separator: Separator tape.

Shield: Concentric layer of bare copper wires, counter helix of a copper tape.

Sheath: PVC.

» Technical Data

Rated Voltage U_0/U (Um)	1/2kV, 1.5/3kV, 2.5/5kV, 3/6kV, 5/10kV
Maximum Conductor Temperature	90°C
Short Circuit Temperature	250°C
Operating Temperatures	-40°C~+90°C
Minimum Bending Radius	15×OD
Flame Retardant	Yes



Impacted Resistant	Yes
Weather Resistant	Yes

» Dimensions and Weight

1/2kV

Construction	Nominal Insulation Thickness	Nominal Shield Cross Section	Nominal Sheath Thickness	Nominal Overall Diameter	Nominal Weight
No. ×mm ²	mm	mm ²	mm	mm	kg/km
1×6	1.5	2.5	1.4	10.0	170

1.5/3kV

Construction	Nominal Insulation Thickness	Nominal Screen Cross Section	Nominal Sheath Thickness	Nominal Overall Diameter	Nominal Weight
No. ×mm ²	mm	mm ²	mm	mm	kg/km
1×6	2.8	2.5	1.4	12.5	240

2.5/5kV

Construction	Nominal Insulation Thickness	Nominal Shield Cross Section	Nominal Sheath Thickness	Nominal Overall Diameter	Nominal Weight
No. ×mm ²	mm	mm ²	mm	mm	kg/km
1×6	3.0	4	1.4	13.0	250

3/6kV

Construction	Nominal Insulation Thickness	Nominal Shield Cross Section	Nominal Sheath Thickness	Nominal Overall Diameter	Nominal Weight
No. ×mm ²	mm	mm ²	mm	mm	kg/km
1×6	3.0	4	1.4	13.0	250
1×16	3.0	6	1.4	15.0	465

5/10kV

Construction	Nominal Insulation Thickness	Nominal Screen Cross Section	Nominal Sheath Thickness	Nominal Overall Diameter	Nominal Weight
No. ×mm ²	mm	mm ²	mm	mm	kg/km
1×6	3.8	6	1.4	16.5	360
1×10	3.8	6	1.4	17.0	390

Caledonian Airport Cables

Airfield Lighting Cables



FL2XCY

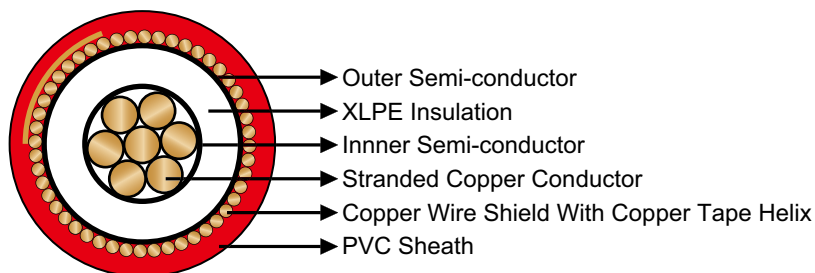
» Applications

These cables are used as airfield lighting equipment primary cables for the series circuit connecting the Constant Current Regulators and the isolating transformers, and between the isolating transformers.

» Standards

ENV 50213
IEC 60502-2

» Construction



Conductor: Stranded bare copper conductor.

Inner Semi-Conductor: Extruded semi-conducting compound.

Insulation: XLPE.

Outer Semi-Conductor: Extruded semi-conducting compound.

Shield: Concentric layer of bare copper wires, counter helix of a copper tape.

Sheath: PVC.

» Technical Data

Rated Voltage U ₀ /U (U _m)	6/10kV
Maximum Conductor Temperature	90°C
Short Circuit Temperature	250°C
Operating Temperatures	-40°C~+90°C
Minimum Bending Radius	15×OD
Flame Retardant	Yes



Caledonian Airport Cables

Airfield Lighting Cables

Impacted Resistant	Yes
Weather Resistant	Yes
Oil Resistant	Yes

» Dimensions and Weight

Construction	Nominal Insulation Thickness	Nominal Shield Cross Section	Nominal Sheath Thickness	Nominal Overall Diameter	Nominal Weight
No. ×mm ²	mm	mm ²	mm	mm	kg/km
1×6	3.5	6	1.4	15.6	420



Caledonian Airport Cables

Airfield Lighting Cables



FL2XCYRY

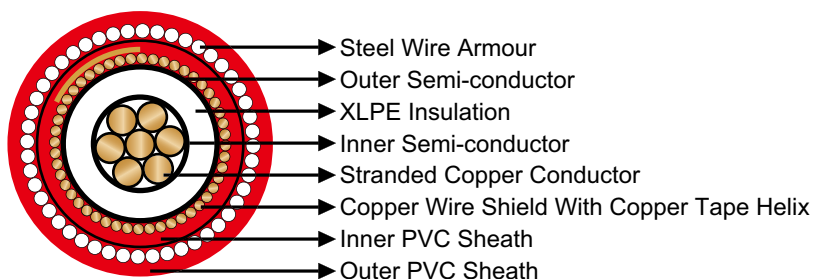
» Applications

These cables are used as airfield lighting equipment primary cables for the series circuit connecting the Constant Current Regulators and the isolating transformers, and between the isolating transformers.

» Standards

ENV 50213
IEC 60502-2

» Construction



Conductor: Stranded bare copper conductor.

Inner Semi-Conductor: Extruded semi-conducting compound.

Insulation: XLPE.

Outer Semi-Conductor: Extruded semi-conducting compound.

Shield: Concentric layer of bare copper wires, counter helix of a copper tape.

Inner Sheath: PVC.

Armour: Steel wire armour.

Outer Sheath: PVC.

» Technical Data

Rated Voltage U_0/U (U_m)	6/10kV
Maximum Conductor Temperature	90°C
Short Circuit Temperature	250°C



Caledonian Airport Cables

Airfield Lighting Cables

Operating Temperatures	-40°C~+90°C
Minimum Bending Radius	15×OD
Flame Retardant	Yes
Impacted Resistant	Yes
Weather Resistant	Yes
Oil Resistant	Yes

» Dimensions and Weight

Construction	Nominal Insulation Thickness	Nominal Shield Cross Section	Nominal Sheath Thickness	Nominal Overall Diameter	Nominal Weight
No. ×mm ²	mm	mm ²	mm	mm	kg/km
1×6	3.5	6	1.4	20.5	710



Caledonian Airport Cables

Airfield Lighting Cables



RG7H1R for Airport Lighting

» Applications

These cables are used as airfield lighting equipment primary cables for the series circuit connecting the Constant Current Regulators and the isolating transformers, and between the isolating transformers.

» Standards

ENV 50213

» Construction

Conductor: Compact stranded bare copper conductor.

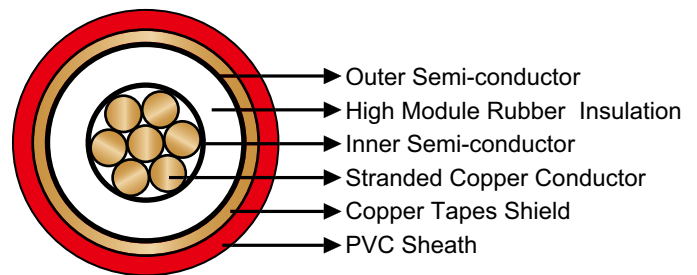
Inner Semi-Conductor: Extruded semi-conducting compound.

Insulation: High module rubber compound, G7 type.

Outer Semi-Conductor: Extruded semi-conducting compound.

Shield: Bare copper tapes.

Sheath: PVC.



» Technical Data

Rated Voltage U_0/U (Um)	3.6/6kV
Maximum Conductor Temperature	90°C
Short Circuit Temperature	250°C
Operating Temperatures	0°C~+90°C
Minimum Bending Radius	15×OD
Flame Retardant	Yes

» Dimensions and Weight

Construction	Nominal Insulation Thickness	Minimum Shield Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Nominal Weight
No. ×mm ²	mm	mm	mm	mm	kg/km
1×10	2.3	0.075	1.4	14.0	305



RHV

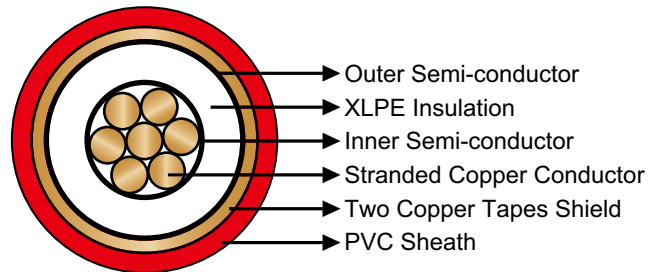
» Applications

These cables are used as airfield lighting equipment primary cables for the series circuit connecting the Constant Current Regulators and the isolating transformers, and between the isolating transformers.

» Standards

UNE 21-161-93 (Spain)

» Construction



Conductor: Stranded bare copper conductor.

Inner Semi-Conductor: Extruded semi-conducting compound.

Insulation: XLPE.

Outer Semi-Conductor: Extruded semi-conducting compound.

Shield: Two copper tapes.

Outer Sheath: PVC.

» Technical Data

Rated Voltage U_0/U (Um)	6/10kV
Maximum Conductor Temperature	90°C
Short Circuit Temperature	250°C
Operating Temperatures	-20°C~+90°C
Minimum Bending Radius	static: 10×OD; dynamic: 20×OD
Impacted Resistant	Yes
Weather Resistant	Yes
Oil Resistant	Yes

» Dimensions and Weight

Construction	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Nominal Weight
No. ×mm ²	mm	mm	mm	kg/km
1×6	3.5	2.8	18.0	410

Caledonian Airport Cables

Airfield Lighting Cables



RHZ1

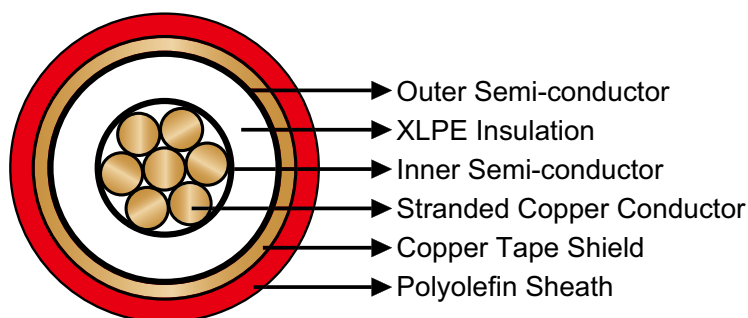
» Applications

These cables are used as airfield lighting equipment primary cables for the series circuit connecting the Constant Current Regulators and the isolating transformers, and between the isolating transformers.

» Standards

UNE 21161-93 (Spain)

» Construction



Conductor: Stranded copper conductor.

Inner Semi-Conductor: Extruded semi-conducting compound.

Insulation: XLPE.

Outer Semi-Conductor: Extruded semi-conducting compound.

Shield: Copper tape shield.

Outer Sheath: Polyolefin.

» Technical Data

Rated Voltage U ₀ /U (U _m)	6/10kV
Maximum Conductor Temperature	90°C
Short Circuit Temperature	250°C
Operating Temperatures	-20°C~+90°C
Minimum Bending Radius	18×OD
Halogen Free	Yes



Caledonian Airport Cables

Airfield Lighting Cables

No Corrosive & Toxic Gases	Yes
Low Smoke	Yes
Flame Retardant	Yes
Impacted Resistant	Yes
Weather Resistant	Yes
Oil Resistant	Yes

» Dimensions and Weight

Construction	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Nominal Weight
No. ×mm ²	mm	mm	mm	kg/km
1×6	3.5	2.0	18.0	400



Caledonian Airport Cables

Airfield Lighting Cables



FAA L-824 Type B Unshielded 5kV

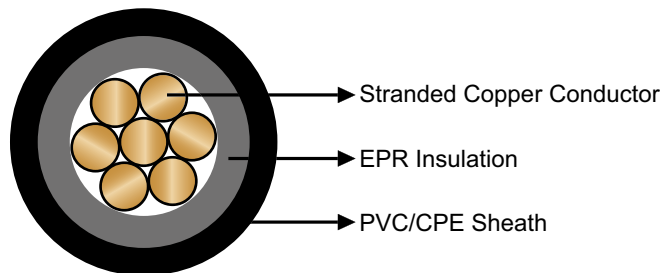
» Applications

These cables are used for interconnecting the transformers and the current regulator of airfield lighting systems in series circuits, suitable for fixed applications such as taxiways, runways, navigational aids, and obstruction lighting, can be installed in conduit and direct burial.

» Standards

FAA L-824 Type B
ICEA S-96-659/NEMA WC71

» Construction



Conductor: Stranded bare or tinned copper conductor.

Insulation: EPR.

Sheath: CPE/PVC.

» Technical Data

Rated Voltage U ₀ /U (U _m)	5kV
Maximum Conductor Temperature	90°C
Short Circuit Temperature	250°C
Operating Temperatures	-40°C~+85°C
Minimum Bending Radius	5×OD
Halogen Free	Yes
Abrasion Resistant	Yes
UV Resistant	Yes
Oil Resistant	Yes



Caledonian Airport Cables

Airfield Lighting Cables

» Dimensions and Weight

Construction No. xmm ² / AWG	No. of Strand -	Nominal Insulation Thickness		Nominal Insulation Thickness		Nominal Overall Diameter		Nominal Weight	
		mm	inches	mm	inches	mm	inches	kg/km	lbs/kft
1x6 mm ²	7/19	2.3	0.09	1.2	0.05	10.0	0.39	150	101
1x8	7/19	2.3	0.09	0.76	0.03	10.7	0.420	180	121
1x6	7/19	2.3	0.09	0.76	0.03	11.7	0.460	238	160
1x4	7/19	2.3	0.09	0.76	0.03	12.8	0.505	326	219



Caledonian Airport Cables

Airfield Lighting Cables



FAA L-824 Type B Shielded 5kV

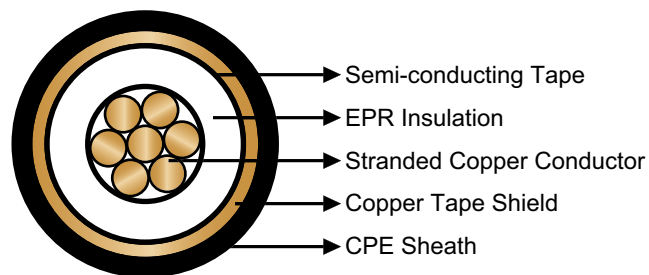
» Applications

These cables are used for interconnecting the transformers and the current regulator of airfield lighting systems in series circuits, suitable for fixed applications such as taxiways, runways, navigational aids, and obstruction lighting, can be installed in conduit and direct burial.

» Standards

FAA L-824 Type B
ICEA S-93-639 / NEMA WC74

» Construction



Conductor: Stranded tinned copper conductor.

Insulation: EPR.

Semi-Conductor: Helically applied semi-conducting tape.

Shield: Tinned copper tape.

Separator: Separation tape.

Sheath: CPE.

» Technical Data

Rated Voltage U ₀ /U (U _m)	5kV
Maximum Conductor Temperature	90°C
Short Circuit Temperature	250°C
Operating Temperatures	-40°C~+85°C
Minimum Bending Radius	12×OD



Caledonian Airport Cables

Airfield Lighting Cables

Halogen Free	Yes
Abrasion Resistant	Yes
UV Resistant	Yes
Oil Resistant	Yes

» Dimensions and Weight

Construction	No. of Strand	Nominal Insulation Thickness		Nominal Sheath Thickness		Nominal Overall Diameter		Nominal Weight	
		mm	inches	mm	inches	mm	inches	kg/km	lbs/kft
No. xmm ² / AWG	-								
1×6mm ²	7	2.3	0.09	1.2	0.05	11.1	0.44	194	130
1×8	7	2.3	0.09	1.2	0.05	11.7	0.46	225	151



Caledonian Airport Cables

Airfield Lighting Cables



FAA L-824 Type C 600V

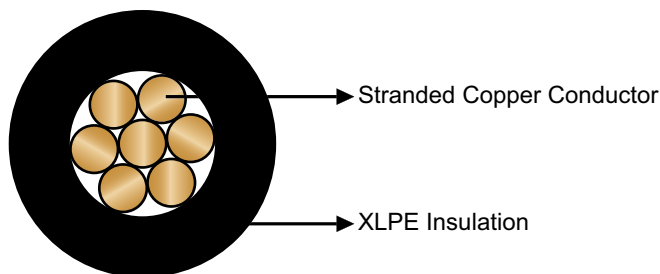
» Applications

These cables are designed for use in airport lighting and control circuits, suitable for installation in ducts, conduit and direct burial.

» Standards

FAA L-824 Type C
ICEA S-95-658/NEWA WC71

» Construction



Conductor: Stranded bare copper to ASTM B.

Insulation: XLPE.

Sheath (for multiconductor cables only): PVC.

» Technical Data

Rated Voltage U ₀ /U (U _m)	600V
Maximum Conductor Temperature	90°C
Short Circuit Temperature	250°C
Operating Temperatures	-40°C~+90°C
Minimum Bending Radius	5×OD



» Dimensions and Weight

Construction No. xAWG	No. of Strand	Nominal Insulation Thickness		Nominal Sheath Thickness		Nominal Overall Diameter		Nominal Weight	
		mm	mm	mm	inches	mm	inches	kg/km	lbs/kft
1x12	7	mm	inches	-	-	4.62	0.182	46	30
1x10	7	1.14	0.045	-	-	5.21	0.205	61	43
1x8	7	1.14	0.045	-	-	6.76	0.266	101	69
1x6	7	1.52	0.06	-	-	7.72	0.304	152	102
1x4	7	1.52	0.06	-	-	8.94	0.352	231	158
2x12	7	0.76	0.03	1.14	0.045	10.41	0.41	146	98
2x10	7	0.76	0.03	1.14	0.045	11.56	0.455	199	134
2x8	7	1.14	0.045	1.52	0.06	15.37	0.605	323	217
2x6	7	1.14	0.045	1.52	0.06	17.40	0.685	446	300
2x4	7	1.14	0.045	1.52	0.06	19.81	0.780	632	425
3x12	7	0.76	0.03	1.14	0.045	11.05	0.435	187	126
3x10	7	0.76	0.03	1.14	0.045	12.19	0.480	259	174
3x8	7	1.14	0.045	1.52	0.06	16.38	0.645	437	294
3x6	7	1.14	0.045	1.52	0.06	18.42	0.725	610	410
3x4	7	1.14	0.045	2.03	0.08	21.97	0.865	908	610
4x12	7	0.76	0.03	1.14	0.045	12.07	0.475	222	149
4x10	7	0.76	0.03	1.52	0.06	14.22	0.560	350	235
4x8	7	1.14	0.045	1.52	0.06	17.91	0.705	548	368
4x6	7	1.14	0.045	1.52	0.06	20.19	0.795	772	519
4x4	7	1.14	0.045	2.03	0.08	24.13	0.950	1165	783
5x12	7	0.76	0.03	1.14	0.045	13.08	0.515	292	196
5x10	7	0.76	0.03	1.52	0.06	15.49	0.610	405	272
6x12	7	0.76	0.03	1.52	0.06	15.24	0.600	357	240
6x10	7	0.76	0.03	1.52	0.06	16.89	0.665	495	333
7x12	7	0.76	0.03	1.52	0.06	15.24	0.600	379	255
7x10	7	0.76	0.03	1.52	0.06	16.89	0.665	534	359
8x12	7	0.76	0.03	1.52	0.06	16.38	0.645	430	289
8x10	7	0.76	0.03	1.52	0.06	18.29	0.720	604	406
9x12	7	0.76	0.03	1.52	0.06	17.65	0.695	479	322
9x10	7	0.76	0.03	1.52	0.06	19.69	0.775	707	475
10x12	7	0.76	0.03	1.52	0.06	18.42	0.725	539	362
10x10	7	0.76	0.03	1.52	0.06	20.57	0.810	762	512
11x12	7	0.76	0.03	1.52	0.06	18.92	0.745	594	399
11x10	7	0.76	0.03	2.03	0.08	22.10	0.870	878	590
12x12	7	0.76	0.03	1.52	0.06	19.43	0.765	631	424
12x10	7	0.76	0.03	2.03	0.08	22.61	0.890	933	627
13x12	7	0.76	0.03	1.52	0.06	20.07	0.790	662	445

Caledonian Airport Cables

Airfield Lighting Cables



Construction No. xAWG	No. of Strand	Nominal Insulation Thickness		Nominal Sheath Thickness		Nominal Overall Diameter		Nominal Weight	
		mm	mm	mm	inches	mm	inches	kg/km	lbs/kft
13x10	7	0.76	0.03	2.03	0.08	23.50	0.925	985	662
14x12	7	0.76	0.03	1.52	0.06	20.83	0.820	708	476
14x10	7	0.76	0.03	2.03	0.08	24.26	0.955	1053	708
15x12	7	0.76	0.03	2.03	0.08	22.35	0.880	793	533
15x10	7	0.76	0.03	2.03	0.08	24.89	0.980	1119	752
16x12	7	0.76	0.03	2.03	0.08	22.99	0.905	839	564
16x10	7	0.76	0.03	2.03	0.08	25.65	1.010	1186	797
17x12	7	0.76	0.03	2.03	0.08	23.62	0.930	902	606
17x10	7	0.76	0.03	2.03	0.08	26.29	1.035	1275	857
18x12	7	0.76	0.03	2.03	0.08	24.26	0.955	946	636
18x10	7	0.76	0.03	2.03	0.08	26.92	1.060	1342	902
19x12	7	0.76	0.03	2.03	0.08	24.26	0.955	970	652
19x10	7	0.76	0.03	2.03	0.08	26.92	1.060	1381	928





FAA L-824 Type C Unshielded 5kV

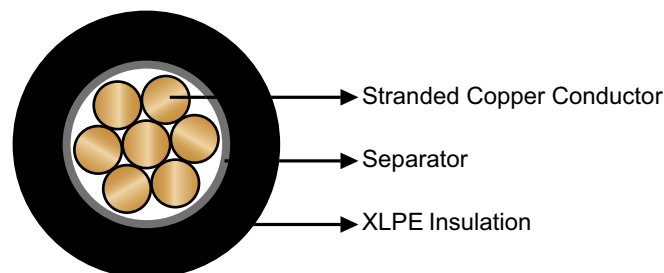
» Applications

These cables are used for interconnecting the transformers and the current regulator of airfield lighting systems in series circuits, suitable for fixed applications such as taxiways, runways, navigational aids, and obstruction lighting, can be installed in conduit and direct burial.

» Standards

FAA L-824 Type C
ICEA S-96-659/NEWA WC71

» Construction



Conductor: Stranded bare copper to ASTM B3 and ASTM B8.

Separator: Semi-conductive extruded layer or semi-conductive tape.

Insulation: XLPE.

» Technical Data

Rated Voltage U ₀ /U (U _m)	5kV
Maximum Conductor Temperature	90°C
Short Circuit Temperature	250°C
Operating Temperatures	-40°C~+90°C
Minimum Bending Radius	5×OD
Lead Free	Yes

Caledonian Airport Cables

Airfield Lighting Cables



» Dimensions and Weight

Construction No. xAWG	No. of Strand -	Nominal Insulation Thickness		Nominal Overall Diameter		Nominal Weight	
		mm	inches	mm	inches	kg/km	lbs/kft
1x8	7/19	2.79	0.11	9.65	0.380	132	89
1x6	7/19	2.79	0.11	10.67	0.420	186	125
1x4	7/19	2.79	0.11	11.68	0.46	268	180





FAA L-824 Type C Shielded 5kV

» Applications

These cables are used for interconnecting the transformers and the current regulator of airfield lighting systems in series circuits, suitable for fixed applications such as taxiways, runways, touchdown zones, land and hold short lighting systems, can be installed in conduit, duct, aerial and direct burial.

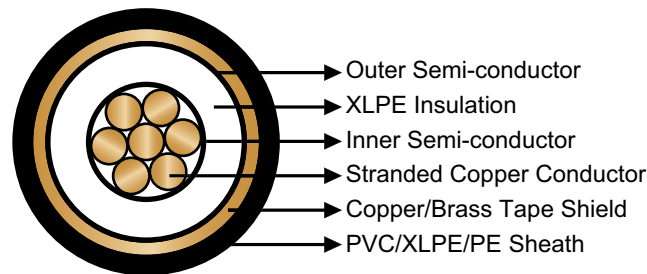
» Standards

FAAAC 150 / 5345-7E

FAA L-824 Type C

ICEA S-93-639 / NEMA WC74

» Construction



Conductor: Stranded bare or tinned copper.

Inner Semi-Conductor: Extruded semi-conducting compound.

Insulation: XLPE.

Outer Semi-Conductor: Semi conducting tape or extruded.

Shield: Copper or brass tape(s). Tinned copper wire braid can be offered upon request.

Sheath: PVC. PE/XLPE can be offered upon request.

» Technical Data

Rated Voltage U_0/U (U_m)	5kV
Maximum Conductor Temperature	90°C
Short Circuit Temperature	250°C
Operating Temperatures	-40°C~+90°C

Caledonian Airport Cables

Airfield Lighting Cables



Minimum Bending Radius	static: 10×OD; dynamic: 20×OD
Impacted Resistant	Yes
Weather Resistant	Yes

» Dimensions and Weight

Construction No. ×mm ² / AWG	No. of Strand -	Nominal Insulation Thickness		Nominal Overall Diameter		Nominal Weight	
		mm	inches	mm	inches	kg/km	lbs/kft
1×6mm ²	7/19	2.3	0.09	11.0	0.43	180	121
1×8	7/19	2.3	0.09	14.3	0.565	298	200
1×6	7/19	2.3	0.09	15.4	0.605	366	246
1×4	7/19	2.3	0.09	17.0	0.668	513	345





FAA L-824 Type C Sheathed 5kV

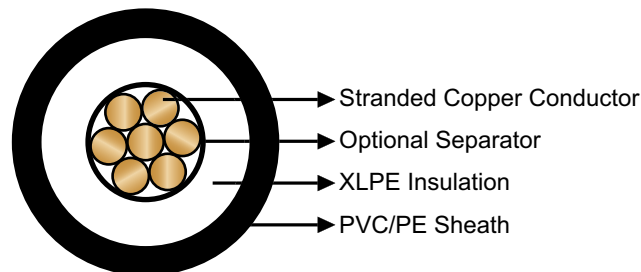
» Applications

These cables are used for interconnecting the transformers and the current regulator of airfield lighting systems in series circuits, suitable for fixed applications such as taxiways, runways, navigational aids, and obstruction lighting, can be installed in conduit and direct burial.

» Standards

FAA L-824 Type C
ICEA S-96-659/NEWA WC71

» Construction



Conductor: Stranded bare copper to ASTM B3 and ASTM B8.

Optional Separator: Optional separator or conductor shield be applied.

Insulation: XLPE.

Sheath: PE/PVC.

» Technical Data

Rated Voltage U ₀ /U (U _m)	5kV
Maximum Conductor Temperature	90°C
Short Circuit Temperature	250°C
Operating Temperatures	-40°C~+90°C
Minimum Bending Radius	static: 10×OD; dynamic: 20×OD
Impacted Resistant	Yes
Weather Resistant	Yes

Caledonian Airport Cables

Airfield Lighting Cables



» Dimensions and Weight

Construction No. xmm ² / AWG	No. of Strand	Nominal Insulation Thickness		Nominal Insulation Thickness		Nominal Overall Diameter		Nominal Weight	
		mm	mm	mm	inches	mm	inches	kg/km	lbs/kft
1x6mm ²	7	2.3	0.09	0.8	0.03	9.9	0.39	180	121
1x8	7	2.3	0.09	0.76	0.03	10.1	0.396	95	64
1x6	7	2.3	0.09	0.76	0.03	11.0	0.433	127	85
1x4	7	2.3	0.09	1.14	0.045	13.0	0.509	164	110





H07RN-F

» Applications

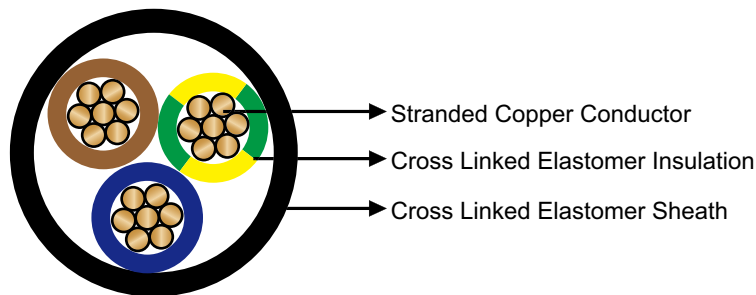
These cables are used for connection between transformers and Airfield Lighting Equipment.

» Standards

NF C 32-102-4

HD 22-4

» Construction



Conductor: Stranded bare copper.

Insulation: Special cross linked elastomer.

Sheath: Cross linked oil resistant elastomer.

» Technical Data

Rated Voltage U ₀ /U (U _m)	450/750V
Maximum Conductor Temperature	85°C
Short Circuit Temperature	200°C
Operating Temperatures	-20°C~+85°C
Minimum Bending Radius	static: 4×OD; dynamic: 8×OD
Impacted Resistant	Yes
Weather Resistant	Yes
Oil Resistant	Yes

Caledonian Airport Cables

Airfield Lighting Cables



» Dimensions and Weight

Construction	Nominal Insulation Thickness	Nominal Sheath Thickness	Minimum Overall Diameter	Maximum Overall Diameter	Nominal Weight
No. ×mm ²	mm	mm	mm	mm	kg/km
1×2.5	0.9	1.4	6.3	7.9	66
1×4	1.0	1.5	7.2	9.0	94
1×6	1.0	1.6	7.9	9.8	109
2×2.5	0.9	1.7	10.2	13.1	161
2×4	1.0	1.8	11.8	15.0	238
2×6	1.0	2.0	13.1	17.0	279
3×2.5	0.9	1.8	10.9	14.0	195
3×4	1.0	1.5	12.7	16.2	290
3×6	1.0	2.0	14.1	18.0	346





Secondary Circuit Cable 450/750V to ADP Specification

» Applications

These cables are used for connection between transformers and Airfield Lighting Equipment.

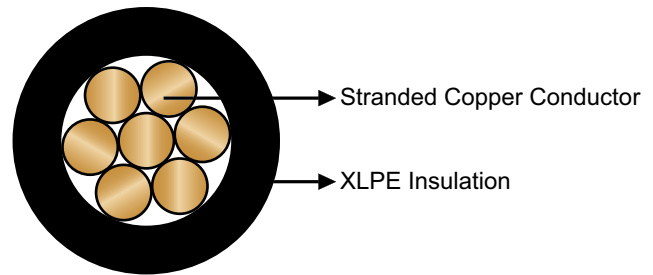
» Standards

ADP (Aéroport de Paris) specification

» Construction

Conductor: Stranded bare copper.

Insulation: XLPE.



» Technical Data

Rated Voltage U ₀ /U (U _m)	450/750V
Maximum Conductor Temperature	90°C
Short Circuit Temperature	250°C
Operating Temperatures	-20°C~+70°C
Minimum Bending Radius	5×OD
Impacted Resistant	Yes
Weather Resistant	Yes

» Dimensions and Weight

Construction	Nominal Insulation Thickness	Minimum Overall Diameter	Maximum Overall Diameter	Nominal Weight
No. ×mm ²	mm	mm	mm	kg/km
1×4	0.7	3.5	4.5	42

Caledonian Airport Cables

Airfield Lighting Cables



FLGG

» Applications

These cables are used as airfield lighting cable for secondary electrical circuits.

» Standards

IEC 60502-1

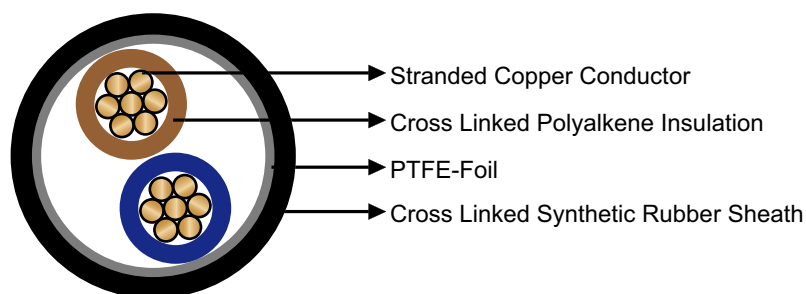
» Construction

Conductor: Stranded tinned copper conductor.

Insulation: Cross linked polyalkene.

Separator: PTFE-Foil.

Outer Sheath: Cross linked synthetic rubber compound.



» Technical Data

Rated Voltage U ₀ /U (U _m)	500V
Maximum Conductor Temperature	90°C
Short Circuit Temperature	250°C
Operating Temperatures	-20°C~+90°C
Minimum Bending Radius	5×OD
Halogen Free	Yes
No Toxicity & Corrosivity	Yes
Low Smoke	Yes
Flame Retardant	Yes

» Dimensions and Weight

Construction	Nominal Sheath Thickness	Nominal Sheath Thickness	Maximum Overall Diameter	Nominal Weight
No. ×mm ²	mm	mm	mm	kg/km
2×4	0.5	1.1	9.8	167



LYST

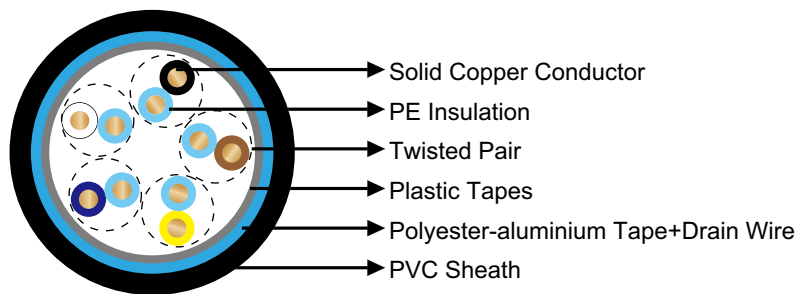
» Applications

These cables are used for connection between Control Tower and Constant Current Regulators (CCRs), suitable for transmission of voice data up to 2,000 kHz.

» Standards

NF C 32 070 C2

» Construction



Conductor: Solid bare copper.

Insulation: PE.

Cable Element: Pairs.

Separator: One or more plastic tapes.

Shield: Polyester-aluminium tape with drain wire.

Sheath: PVC.

» Technical Data

Rated Voltage U ₀ /U (U _m)	200V
Maximum Conductor Temperature	90°C
Short Circuit Temperature	250°C
Operating Temperatures	-15°C~+70°C
Minimum Bending Radius	static: 6×OD; dynamic: 12×OD
Lead Free	Yes

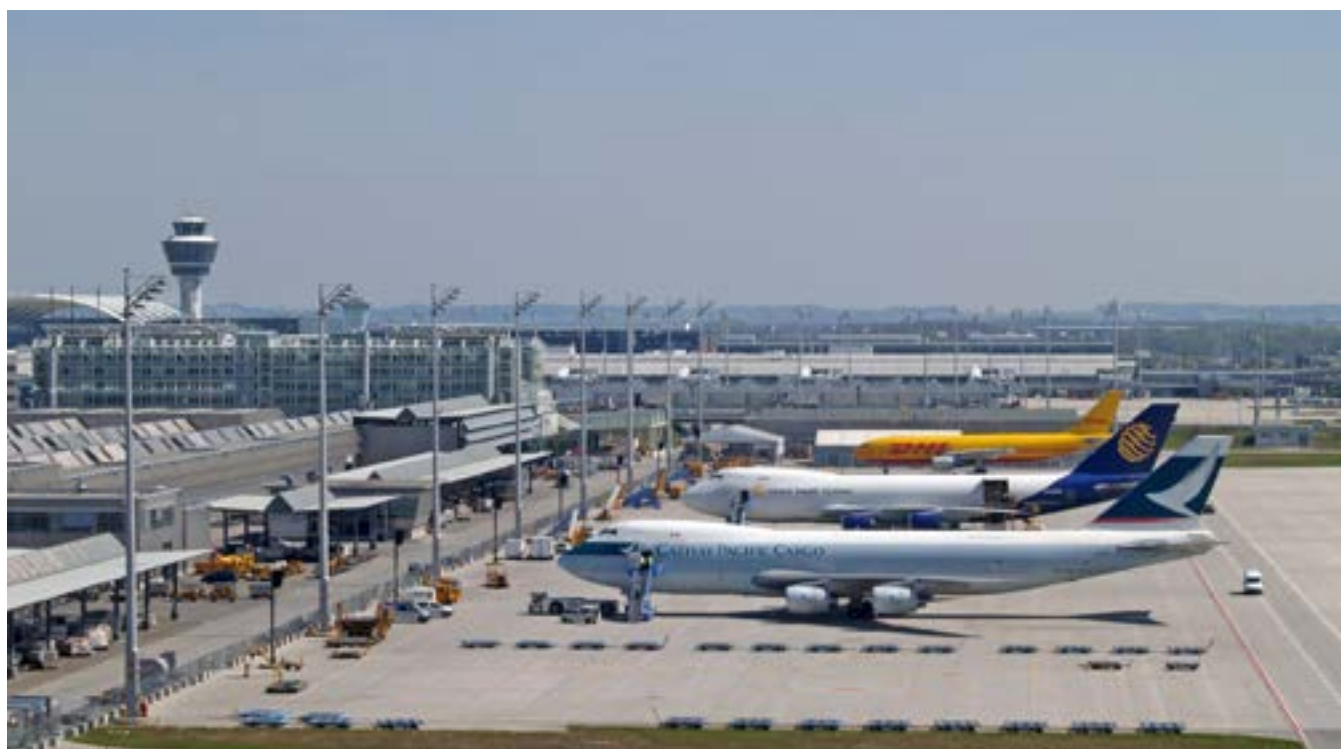
Caledonian Airport Cables

Airfield Lighting Cables



» Dimensions and Weight

Construction No. ×mm ²	AWG	Nominal Overall Diameter mm	Nominal Weight kg/km
1×2×0.20	24	3.6	18
2×2×0.20	24	4.5	27
3×2×0.20	24	5.0	33
5×2×0.20	24	6.0	47
10×2×0.20	24	7.2	77
15×2×0.20	24	8.2	104
30×2×0.20	24	11.0	193
56×2×0.20	24	14.7	334
112×2×0.20	24	19.5	626
1×2×0.50	20	4.8	31
2×2×0.50	20	7.0	57
3×2×0.50	20	7.2	70
5×2×0.50	20	8.6	97
10×2×0.50	20	11.3	174
15×2×0.50	20	12.9	236
30×2×0.50	20	16.8	441
56×2×0.50	20	23.4	799





LYAR

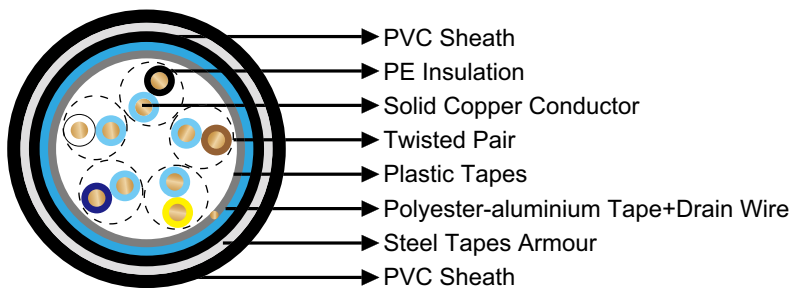
» Applications

These cables are used for connection between Control Tower and Constant Current Regulators (CCRs), suitable for transmission of voice data up to 2,000 kHz.

» Standards

NF C 32 070 C2

» Construction



Conductor: Solid bare copper.

Insulation: PE.

Cable Element: Pairs.

Separator: One or more plastic tapes.

Shield: Polyester-aluminium tape with drain wire.

Inner Sheath: PVC.

Armour: Steel tapes.

Outer Sheath: PVC.

» Technical Data

Rated Voltage U ₀ /U (U _m)	200V
Maximum Conductor Temperature	90°C
Short Circuit Temperature	250°C
Operating Temperatures	-15°C~+70°C
Minimum Bending Radius	static: 10×OD; dynamic: 20×OD
Lead Free	Yes

Caledonian Airport Cables

Airfield Lighting Cables



» Dimensions and Weight

Construction No. ×mm ²	AWG	Nominal Overall Diameter mm	Nominal Weight kg/km
5×2×0.20	24	9.9	147
10×2×0.20	24	10.7	178
15×2×0.20	24	11.7	222
30×2×0.20	24	14.4	342
56×2×0.20	24	18.1	537
2×2×0.50	20	10.4	57
3×2×0.50	20	10.6	70
5×2×0.50	20	12.0	97
10×2×0.50	20	14.6	174
15×2×0.50	20	16.0	236
30×2×0.50	20	24.4	441
56×2×0.50	20	23.4	799





Airport Pavement Cable 600V

» Applications

These cables are used as airport pavement cable for secondary electrical circuits.

» Standards

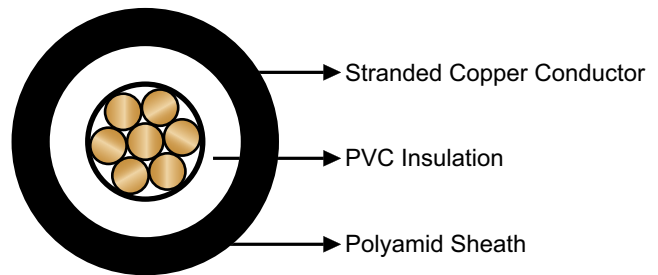
FAA 150/5345-30

» Construction

Conductor: Stranded copper conductor.

Insulation: PVC.

Sheath: Polyamid (nylon).



» Technical Data

Rated Voltage U ₀ /U (U _m)	600V
Operating Temperatures	-45°C~+85°C
Minimum Bending Radius	5×OD
Abrasion Resistant	Yes
UV Resistant	Yes
Oil Resistant	Yes

» Dimensions and Weight

Construction No. ×mm ² /AWG	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×4 mm ²	0.6	0.15	4.1	48
1×12	0.6	0.15	3.8	41
1×10	0.8	0.15	4.9	66



400Hz Cables

400Hz Airport Cables Single Core

» Applications

These cables are designed for 400 Hz systems for power supply of aircraft, computer systems and radar stations, suitable for laying in earth, in water, outdoors, indoors and in cable ducts.

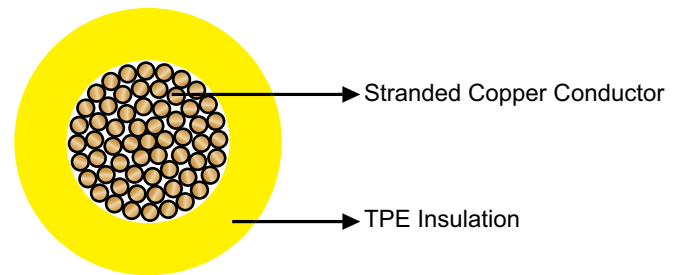
» Standards

VDE 0295

» Construction

Conductor: Stranded copper conductor, Class 5 to VDE 0295/IEC 60228.

Insulation: TPE.



» Technical Data

Rated Voltage U ₀ /U (Um)	600/1000V
Operating Temperatures	-40°C~+90°C
Minimum Bending Radius	static: 6×OD; dynamic: 7×OD
Halogen Free	Yes
Abrasion Resistant	Yes
UV Resistant	Yes
Oil Resistant	Yes

» Dimensions and Weight

Construction No. ×mm ²	Nominal Overall Diameter mm	Nominal Weight kg/km
1×35	11.5	430
1×50	12.6	665
1×70	14.0	910
1×120	23.0	1545



400Hz Airport Cables Single Core With Control Wires

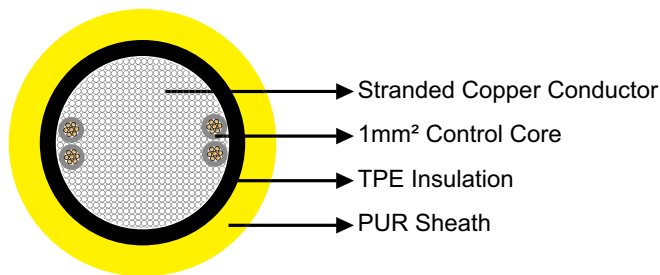
» Applications

These cables are designed for 400 Hz systems for power supply of aircraft, computer systems and radar stations, suitable for laying in earth, in water, outdoors, indoors and in cable ducts.

» Standards

VDE 0295

» Construction



Conductor: Stranded copper conductor, Class 6 to VDE 0295/IEC 60228.

Insulation: TPE. XLEPR/PUR can be offered upon request.

Control Core: 1mm² stranded copper conductor with TPE insulation. XLPE/Polyolefin can be offered upon request

Sheath: PUR.

» Technical Data

Rated Voltage U ₀ /U (U _m)	600/1000V
Operating Temperatures	-40°C~+90°C
Minimum Bending Radius	static: 6×OD; dynamic: 7×OD
Halogen Free	Yes
No Corrosive & Toxic Gases	Yes
Flame Retardant	Yes
Abrasion Resistant	Yes
UV Resistant	Yes
Oil Resistant	Yes



400Hz Cables

» Dimensions and Weight

Construction No. ×mm ²	Nominal Overall Diameter mm	Nominal Weight kg/km
1×35+4×1	14.0	490
1×50+4×1	17.0	600
1×70+4×1	18.7	800
1×120+4×1	25.0	1400





Split Concentric Halogen Free 400Hz Airport Cable

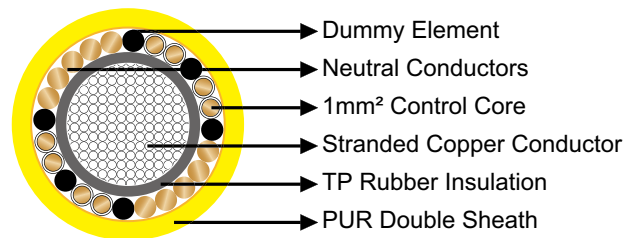
» Applications

These cables are designed for 400 Hz systems for power supply of aircraft, computer systems and radar stations, suitable for laying in earth, in water, outdoors, indoors and in cable ducts.

» Standards

VDE 0295

» Construction



Conductor: Stranded copper conductor, Class 6 /Class 5 to VDE 0295/IEC 60228.

Insulation: TP rubber.

Control Core: 1mm² stranded copper conductor with XLPE insulation.

Cable Assembling: Helical concentric stranding of bare neutral conductors and control wire separated by dummies.

Sheath: 2 layer PUR.

» Technical Data

Rated Voltage U ₀ /U (U _m)	600/1000V
Operating Temperatures	-40°C~+85°C
Minimum Bending Radius	static: 6×OD; dynamic: 8×OD
Flame Retardant	Yes
Abrasion Resistant	Yes
UV Resistant	Yes
Oil Resistant	Yes

» Dimensions and Weight

Construction	Nominal Diameter Over Insulation	Nominal Diameter of Control Core	Nominal Diameter Under Sheath	Nominal Overall Diameter	Nominal Weight
No. ×mm ²	mm	mm	mm	mm	kg/km
1×70+10×2.5+8×1	13.8	2.1	17.8	22.2	1300



400Hz Cables

400Hz Airport Cables 3-core With Control Wires

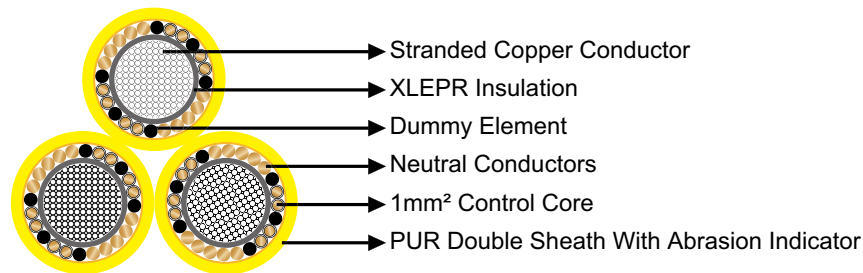
» Applications

These cables are designed for 400 Hz systems for power supply of aircraft, computer systems and radar stations, suitable for laying in earth, in water, outdoors, indoors and in cable ducts.

» Standards

VDE 0295

» Construction



Conductor: Stranded copper conductor, Class 6 to VDE 0295/IEC 60228.

Insulation: XLEPR.

Control Core: 1mm² stranded copper conductor with XLPE insulation.

Cable Assembling: Control cores and neutral conductor concentric stranding around the phase conductors.

Sheath: Bonded inner and outer sheath of polyurethane with abrasion indicators.

» Technical Data

Rated Voltage U ₀ /U (U _m)	600/1000V
Operating Temperatures	-40°C~+90°C
Minimum Bending Radius	static: 3×OD; dynamic: 4×OD
Halogen Free	Yes
No Corrosive & Toxic Gases	Yes
Flame Retardant	Yes
Abrasion Resistant	Yes
UV Resistant	Yes



Caledonian Airport Cables

400Hz Cables

Oil Resistant

Yes

» Dimensions and Weight

Construction No. ×mm ²	Nominal Diameter of Single Core mm	Nominal Overall Diameter mm	Nominal Weight kg/km
3×(1×35/20+8×1)	20.5	44.1	2790
3×(1×70/25+8×1)	22.2	47.8	3560





400Hz Cables

400Hz Airport Cables 4-core With Control Wires In The Center Cable

» Applications

These cables are designed for 400 Hz systems for power supply of aircraft, computer systems and radar stations, suitable for laying in earth, in water, outdoors, indoors and in cable ducts.

» Standards

VDE 0295

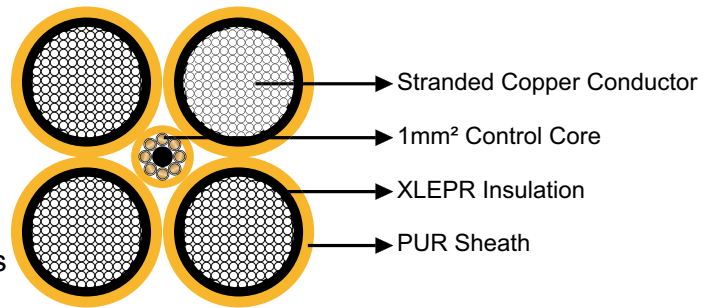
» Construction

Conductor: Stranded copper conductor, Class 5/Class 6 to VDE 0295/IEC 60228.

Insulation: XLEPR.

Control Core: 1mm² stranded copper conductor with polyolefin insulation.

Sheath: PUR.



» Technical Data

Rated Voltage U ₀ /U (Um)	600/1000V
Operating Temperatures	-40°C~+90°C
Minimum Bending Radius	static: 3×OD; dynamic: 4×OD
Halogen Free	Yes
No Corrosive & Toxic Gases	Yes
Flame Retardant	Yes
Abrasion Resistant	Yes
UV Resistant	Yes
Oil Resistant	Yes

» Dimensions and Weight

Construction	Nominal Diameter of Single Core	Nominal Overall Diameter	Nominal Weight
No. ×mm ²	mm	mm	kg/km
4×1×50+8×1	17.2	42.0	2643
4×1×70+8×1	18.2	44.0	3360



400Hz Airport Cables 4-core With Control Wires

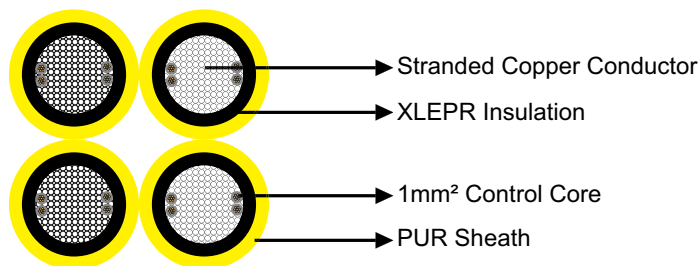
» Applications

These cables are designed for 400 Hz systems for power supply of aircraft, computer systems and radar stations, suitable for laying in earth, in water, outdoors, indoors and in cable ducts.

» Standards

VDE 0295

» Construction



Conductor: Stranded copper conductor, Class 5/Class 6 to VDE 0295/IEC 60228.

Insulation: XLEPR.

Control Core: 1mm² stranded copper conductor with polyolefin insulation.

Sheath: PUR.

» Technical Data

Rated Voltage U ₀ /U (Um)	600/1000V
Operating Temperatures	-40°C~+90°C
Minimum Bending Radius	static: 4×OD; dynamic: 5×OD
Halogen Free	Yes
No Corrosive & Toxic Gases	Yes
Flame Retardant	Yes
Abrasion Resistant	Yes
UV Resistant	Yes
Oil Resistant	Yes



400Hz Cables

» Dimensions and Weight

Construction	Nominal Diameter of Single Core	Nominal Overall Diameter	Nominal Weight
No. xmm ²	mm	mm	kg/km
4x(1x35+4x1)	13.7	33.0	2600
4x(1x50+4x1)	18.2	44.0	3900
4x(1x70+4x1)	21.2	51.3	4300
4x(1x120+4x1)	23.2	56.0	7400





400Hz Airport Cables 7-core

» Applications

These cables are designed for 400 Hz systems for power supply of aircraft, computer systems and radar stations, suitable for laying in earth, in water, outdoors, indoors and in cable ducts.

» Standards

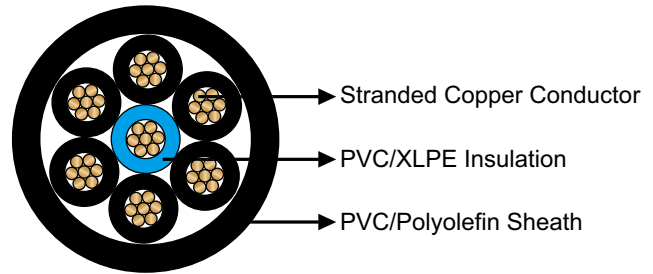
VDE 0271

» Construction

Conductor: Stranded bare copper conductor, Class 2 or 5 to VDE 0295/IEC 60228.

Insulation: PVC/XLPE.

Outer Sheath: PVC. Polyolefin can be offered upon request.



» Technical Data

Rated Voltage U ₀ /U (U _m)	600/1000V
Operating Temperatures	-20°C~+70°C
Minimum Bending Radius	static: 6×OD; dynamic: 12×OD
Impacted Resistant	Yes
Weather Resistant	Yes

» Dimensions and Weight

Construction No. ×mm ²	Nominal Diameter of Single Core mm	Nominal Overall Diameter mm	Nominal Weight kg/km
7×25	9.6	35.0	2800
7×35	10.6	39.0	3500
7×50	11.8	42.9	4000
7×70	13.6	49.2	5440



400Hz Cables

400Hz Airport Cables 7-core With Copper Wire Braid Shield

» Applications

These cables are designed for 400 Hz systems for power supply of aircraft, computer systems and radar stations, suitable for laying in earth, in water, outdoors, indoors and in cable ducts.

» Standards

VDE 0271

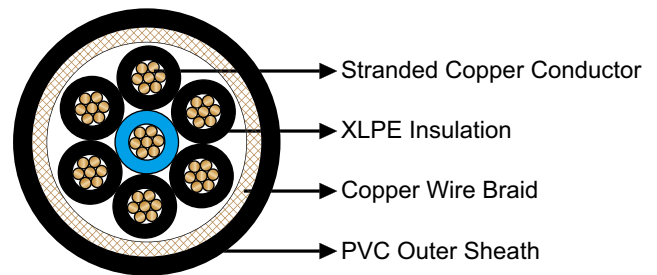
» Construction

Conductor: Stranded bare copper conductor, Class 2/Class 5 to VDE 0295/IEC 60228.

Insulation: XLPE.

Shield: Bare copper braid.

Outer Sheath: PVC.



» Technical Data

Rated Voltage U ₀ /U (U _m)	600/1000V
Operating Temperatures	-20°C~+70°C
Minimum Bending Radius	static: 6×OD; dynamic: 12×OD
Impacted Resistant	Yes
Weather Resistant	Yes

» Dimensions and Weight

Construction	Nominal Diameter of Single Core	Nominal Overall Diameter	Nominal Weight
No. ×mm ²	mm	mm	kg/km
7×70	11.9	46.5	6430



400Hz Airport Cables 7-core With Concentric Copper Wire Shield

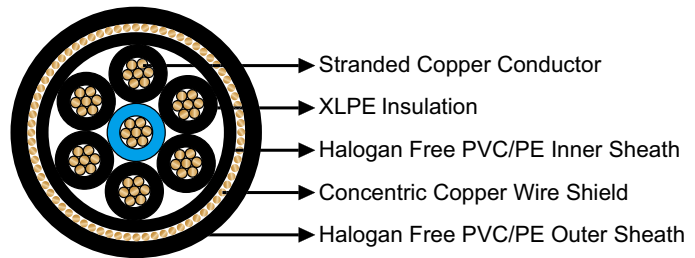
» Applications

These cables are designed for 400 Hz systems for power supply of aircraft, computer systems and radar stations, suitable for laying in earth, in water, outdoors, indoors and in cable ducts.

» Standards

VDE 0295

» Construction



Conductor: Stranded bare copper conductor, Class 2/Class 5 to VDE 0295/IEC 60228.

Insulation: XLPE.

Inner Sheath: Halogen free PVC/PE.

Shield: Concentric copper conductor (25/35mm²).

Outer Sheath: Halogen free PVC/PE.

» Technical Data

Rated Voltage U ₀ /U (U _m)	600/1000V
Operating Temperatures	-40°C~+90°C
Minimum Bending Radius	static: 9×OD; dynamic: 12×OD
Halogen Free	Yes
No Corrosive & Toxic Gases	Yes

» Dimensions and Weight

Construction No. ×mm ²	Nominal Diameter of Single Core mm	Nominal Shield Cross Section mm ²	Nominal Overall Diameter mm	Nominal Weight kg/km
7×25 (class 2)	8.7	25	32.9	2300
7×35 (class 2)	9.7	35	37.2	3100
7×35 (class 5)	10.6	35	41.9	3300



400Hz Cables

400Hz Airport Cables 7-core With Copper Tape Shield

» Applications

These cables are designed for 400 Hz systems for power supply of aircraft, computer systems and radar stations, suitable for laying in earth, in water, outdoors, indoors and in cable ducts.

» Standards

VDE 0295

» Construction

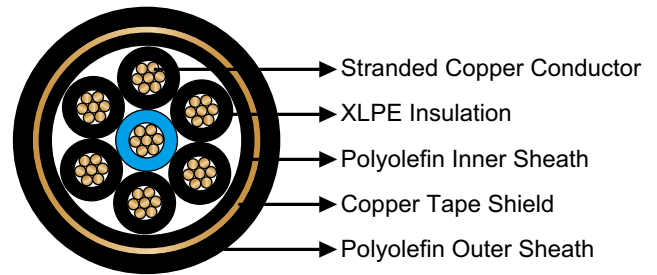
Conductor: Stranded bare copper conductor, Class 5 to VDE 0295/IEC 60228.

Insulation: XLPE.

Inner Sheath: Polyolefin.

Shield: Copper tape shield.

Outer Sheath: Polyolefin.



» Technical Data

Rated Voltage U ₀ /U (Um)	600/1000V
Operating Temperatures	-40°C~+90°C
Minimum Bending Radius	static: 9×OD; dynamic: 12×OD
Halogen Free	Yes
No Corrosive & Toxic Gases	Yes
Low Smoke	Yes
Flame Retardant	Yes

» Dimensions and Weight

Construction	Nominal Diameter of Single Core	Nominal Overall Diameter	Nominal Weight
No. ×mm ²	mm	mm	kg/km
7×35	9.7	41.8	3450
7×50	11.8	47.8	4660
7×70	11.9	54.1	5930



400Hz Airport Cables 7-core With Aluminium Wire Armour

» Applications

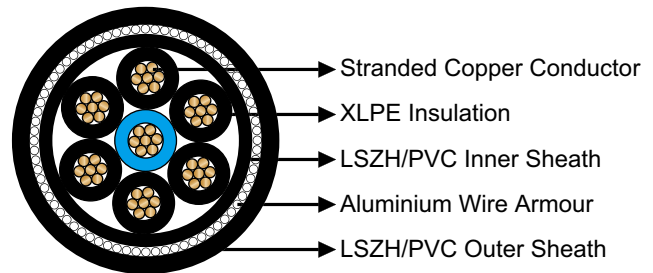
These cables are designed for 400 Hz systems for power supply of aircraft, computer systems and radar stations, suitable for laying in earth, in water, outdoors, indoors and in cable ducts.

» Standards

BS 6724

BS 5467

» Construction



Conductor: Stranded bare copper conductor, Class 2.

Insulation: XLPE.

Inner Sheath: LSZH. PVC can be offered upon request.

Armour: Aluminium wire armour.

Outer Sheath: LSZH. PVC can be offered upon request.

» Technical Data

Rated Voltage U ₀ /U (Um)	600/1000V
Operating Temperatures	-40°C~+90°C
Minimum Bending Radius	static: 9×OD; dynamic: 12×OD
Halogen Free	Yes
No Corrosive & Toxic Gases	Yes
Low Smoke	Yes

» Dimensions and Weight

Construction	Nominal Diameter of Single Core	Nominal Diameter Under Armour	Nominal Diameter Over Armour	Nominal Overall Diameter	Nominal Weight
No. ×mm ²	mm	mm	mm	mm	kg/km
7×35	8.6	30.0	32.4	36.6	3355



400Hz Cables

400Hz Airport Cables 7-core With Control Wires & Reinforcement

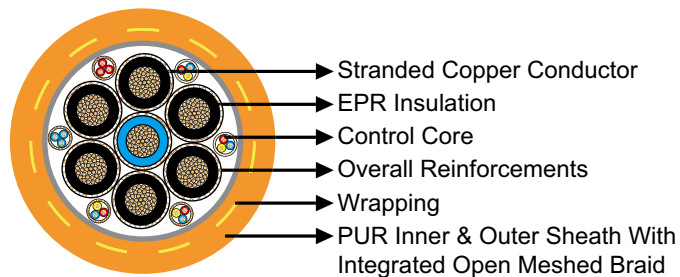
» Applications

These cables are designed for 400 Hz systems for power supply of aircraft, computer systems and radar stations, suitable for laying in earth, in water, outdoors, indoors and in cable ducts.

» Standards

VDE 0295

» Construction



Conductor: Stranded bare copper conductor, Class 5/Class 6 to VDE 0295/IEC 60228.

Insulation: EPR. HEPR/TPE /XLEPR can be offered upon request.

Control Core: 1mm² stranded copper conductor with ethylene tetrafluorethylene insulation. Thermoplastic/TPE/polyolefin can be offered upon request.

Cable Assembling: 6 power cores laid-up over a centre core, control cores laid-up in triads/quads located in outer interstices. Each core has an overall reinforcement.

Wrapping: Common core covering of wrapping and/or extruded filling compound.

Outer Sheath: Bonded inner and outer sheath of polyurethane with integrated open meshed braid.

» Technical Data

Rated Voltage U ₀ /U (U _m)	600/1000V
Operating Temperatures	-20°C~+70°C
Minimum Bending Radius	static: 4×OD; dynamic: 6×OD
Flame Retardant	Yes
Abrasion Resistant	Yes



Caledonian Airport Cables

400Hz Cables

Weather Resistant	Yes
UV Resistant	Yes
Oil Resistant	Yes

» Dimensions and Weight

Construction No. ×mm ²	Nominal Diameter of Power Core mm	Nominal Diameter of Control Core mm	Nominal Overall Diameter mm	Nominal Weight kg/km
7×25+6×(3×1)	9.6	1.8	38.3	2600
7×35+6×(3×1)	10.5	2.1	42.0	3100
7×25+6×(4×1)	9.6	1.8	42.0	2850
7×35+6×(4×1)	10.9	1.9	44.0	3050
7×50+6×(4×1)	11.8	2.1	51.0	4030





400Hz Cables

400Hz Airport Cables 7-core With Reinforcement

» Applications

These cables are designed for 400 Hz systems for power supply of aircraft, computer systems and radar stations, suitable for laying in earth, in water, outdoors, indoors and in cable ducts.

» Standards

VDE 0295

» Construction

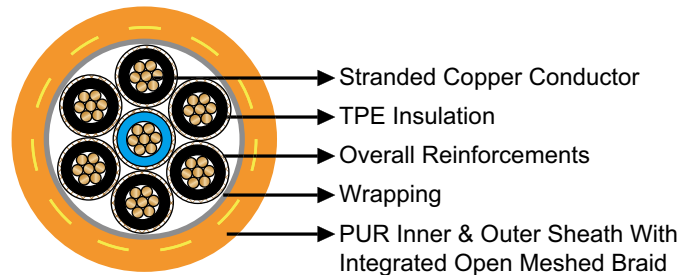
Conductor: Stranded bare copper conductor, Class 5 to VDE 0295/IEC 60228.

Insulation: TPE.

Cable Assembling: 6 power cores laid-up over a centre core.

Wrapping: Common core covering of wrapping and/or extruded filling compound.

Outer Sheath: Bonded inner and outer sheath of polyurethane with integrated open meshed braid.



» Technical Data

Rated Voltage U ₀ /U (U _m)	600/1000V
Operating Temperatures	-35°C~+80°C
Minimum Bending Radius	static: 4×OD; dynamic: 6×OD
Flame Retardant	Yes
Abrasion Resistant	Yes
Weather Resistant	Yes
UV Resistant	Yes
Oil Resistant	Yes

» Dimensions and Weight

Construction	Nominal Diameter of Single Core	Nominal Overall Diameter	Nominal Weight
No. ×mm ²	mm	mm	kg/km
7×35	10.9	38.0	3800



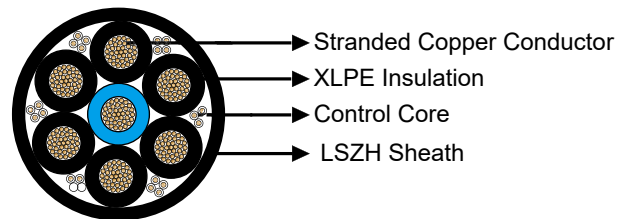
400Hz Airport Cables 7-core With Control Wires

» Applications

These cables are designed for 400 Hz systems for power supply of aircraft, computer systems and radar stations, suitable for laying in earth, in water, outdoors, indoors and in cable ducts.

» Standard

Halogen Free	IEC 60754-1;
No Corrosive Gas Emission	IEC 60754-2;
Minimum Smoke Emission	IEC 61034-1&2;
No Toxic gases	NES 02-713;



» Construction

Conductor: Stranded copper conductor, Class 5 to IEC 60228;

Insulation: XLPE.

Control Core: 1mm² stranded tinned copper conductor class5 with PVC insulation.

Outer Sheath: LSZH compound.

» Technical Data

Rated Voltage U ₀ /U (Um)	600/1000V
Operating Temperatures	-40°C~+90°C
Minimum Bending Radius	static: 4×OD; dynamic: 6×OD
Flame Retardant	Yes
Abrasion Resistant	Yes
UV Resistant	Yes
Testing Voltage	4000V, 50hz

» Dimensions and Weight

Construction No. ×mm ²	Nominal Diameter of Power Core mm	Nominal Diameter of Control Core mm	Nominal Overall Diameter mm	Nominal Weight kg/km
7×16+6×(2×1)	7.2	2.1	30.8	1400
7×35+6×(3×1)	10.5	2.1	36.0	3000
7×50+6×(4×1)	11.8	2.1	40.5	3805



» Colour Code

Insulation Colour:

Light blue in the center as

neutral , 2*brown , 2*black , 2*white

Control core color:White with black numbers1-24.

Other colours can be offered upon request

Sheath Colour:black , other colours can be offered upon request.

» Physical And Thermal Properties

Maximun conductor operating temperature : 90°C

Temperature rating : -45 to +90°C

Minimun bending radius : 258mm for fixed installation

» Flame Retardant Property

IEC 60332-1

» Electrical Properties

Conductor Resistance @20°C : $\leq 0.183 \text{ Ohm/Km}(2 \text{ cores});$

$\leq 0.38 \text{ Ohm/Km}(1 \text{ cores});$

Insulation Resistance@20°C : $\geq 1000 \text{ M Ohm}\times\text{Km}(\text{XLPE insulation});$

Rated Voltage : 600/1000V;

Testing Voltage : 2000V(routine test); 4000V(tape spark test);

Mutual Capacitance : 120nF/Km;

Inductance : 0.11mH/Km;

Max.Short Circuit Current(5 seconds) : 6.0kA;

Max.Current Carrying Capacity per phase : 329 Ampa at 90°C

conductor temperature 30°C ambiemt temperature;

Voltage Drop : 0.364mv/Am phase/N



400Hz Airport Cables 7-core With Double Sheath & Control Wires

» Applications

These cables are designed for 400 Hz systems for power supply of aircraft, computer systems and radar stations, suitable for laying in earth, in water, outdoors, indoors and in cable ducts.

» Standards

VDE 0295

» Construction

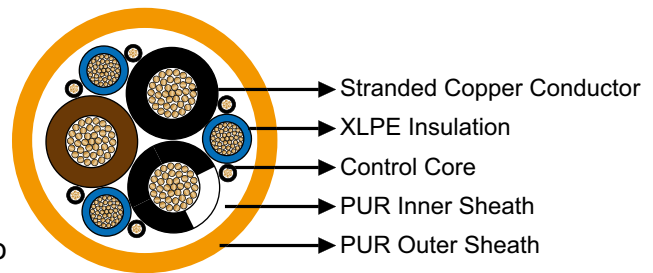
Conductor: Stranded copper conductor, Class 6 to VDE 0295/IEC 60228.

Insulation: XLPE.

Control Core: 1mm² stranded copper conductor with PVC insulation.

Inner Sheath: PUR

Outer Sheath: PUR.



» Technical Data

Rated Voltage U ₀ /U (Um)	600/1000V
Operating Temperatures	-55°C~+80°C
Minimum Bending Radius	static: 4×OD; dynamic: 6×OD
Flame Retardant	Yes
Abrasion Resistant	Yes
UV Resistant	Yes
Oil Resistant	Yes

» Dimensions and Weight

Construction	Nominal Diameter of 50mm ² Core	Nominal Diameter of 16mm ² Core	Nominal Diameter of Control Core	Nominal Diameter Under Outer Sheath	Nominal Overall Diameter	Nominal Weight
No. ×mm ²	mm		mm	mm	mm	kg/km
3×50+3×16+6×1	12.2	7.2	2.5	30.4	34.0	2200



400Hz Cables

400Hz Airport Cables 7-core With Shielded Control Wires

» Applications

These cables are designed for 400 Hz systems for power supply of aircraft, computer systems and radar stations, suitable for laying in earth, in water, outdoors, indoors and in cable ducts.

» Standards

VDE 0295

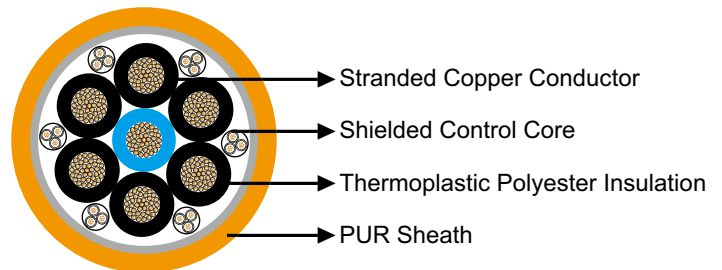
» Construction

Conductor: Stranded copper conductor, Class 6 to VDE 0295/IEC 60228.

Insulation: Thermoplastic polyester.

Control Core: 1mm² stranded copper conductor with polyolefin insulation & tinned copper braid.

Outer Sheath: PUR. TPE can be offered upon request.



» Technical Data

Rated Voltage U ₀ /U (U _m)	600/1000V
Operating Temperatures	-40°C~+90°C
Minimum Bending Radius	static: 4×OD; dynamic: 6×OD
Halogen Free	Yes
No Corrosive & Toxic Gases	Yes
Flame Retardant	Yes
Abrasion Resistant	Yes
UV Resistant	Yes
Oil Resistant	Yes

» Dimensions and Weight

Construction	Nominal Diameter of Power Core	Nominal Diameter of Control Core	Nominal Overall Diameter	Nominal Weight
No. ×mm ²	mm	mm	mm	kg/km
7×25+6×(3×1)C	9.6	2.1	37.5	2800
7×35+6×(3×1)C	11.1	2.1	40.3	3500
7×35+6×(4×1)C	11.1	2.1	44.5	4200



400Hz Airport Cables 7-core With Concentric Copper Wire Shield & Control Wire

» Applications

These cables are designed for 400 Hz systems for power supply of aircraft, computer systems and radar stations, suitable for laying in earth, in water, outdoors, indoors and in cable ducts.

» Standards

VDE 0295

» Construction

Conductor: Stranded bare copper conductor, Class 6 to VDE 0295/IEC 60228.

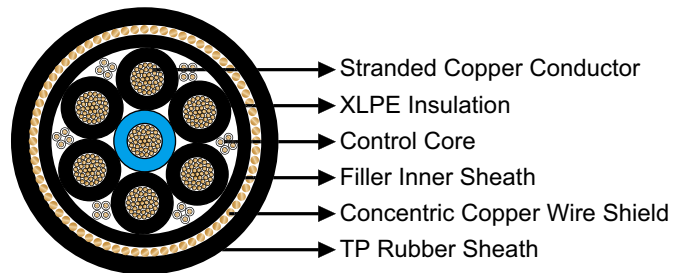
Insulation: XLPE.

Control Core: 1mm² stranded copper conductor with PVC insulation.

Inner Sheath: Filler.

Shield: Concentric copper conductor (25mm²).

Outer Sheath: TP rubber.



» Technical Data

Rated Voltage U ₀ /U (U _m)	600/1000V
Operating Temperatures	-55°C~+85°C
Minimum Bending Radius	static: 8×OD; dynamic: 12×OD
Flame Retardant	Yes

» Dimensions and Weight

Construction	Nominal Diameter of Power Core	Nominal Diameter of Control Core	Nominal Diameter Under Shield	Nominal Overall Diameter	Nominal Weight
No. ×mm ²	mm	mm	mm	mm	kg/km
7×35+6×(4×1)	10.5	2.1	40.8	42.8	3000



400Hz Cables

400Hz Single Core Grounding Cable

» Applications

These cables are designed to be used for grounding the aircraft in hangars or on passenger bridges, connecting aircraft and mobile refueling systems and provide an equipotential bonding.

» Standards

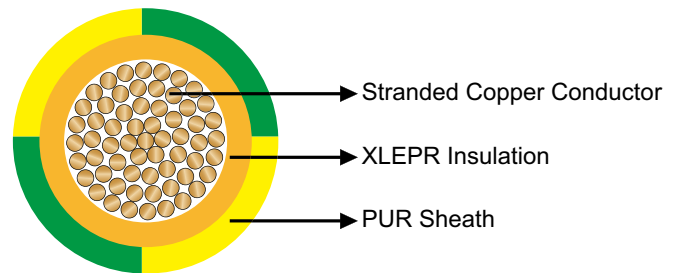
VDE 0295

» Construction

Conductor: Stranded copper conductor, Class 5 to VDE 0295/IEC 60228.

Insulation: XLEPR.

Outer Sheath: PUR.



» Technical Data

Rated Voltage U ₀ /U (U _m)	600/1000V
Operating Temperatures	-40°C~+90°C
Minimum Bending Radius	static: 6×OD; dynamic: 9×OD
Halogen Free	Yes
No Corrosive & Toxic Gases	Yes
Abrasion Resistant	Yes
Weather Resistant	Yes
Oil Resistant	Yes

» Dimensions and Weight

Construction No. ×mm ²	Nominal Overall Diameter mm	Nominal Weight kg/km
1×16	10.7	216

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