

ROUND FESTOON CABLE – SINGLE SHEATH, 0.6/1kV



Cable Type:	TRDFC-S
Standards:	IEC 60502-1, VDE 0250-814
Specification:	TMCRS-14030
Application:	Flexible power and control cable for use on festoon systems RMGC, RTGC, GC, OHC etc.

Electrical Properties

Rated Voltage(U ₀ /U)	0.6/1kV
AC test Voltage	3.5kV/5min.
Current Rating(A)	IEC 60364-5-52

Thermal Properties

Maximum Conductor Temperature	
•Normal Operation	90°C
•Short-Circuit(5s)	250°C Ambient
Temperature	
•Moved	-25°C to + 60°C
•Not Moved	-40°C to + 80°C

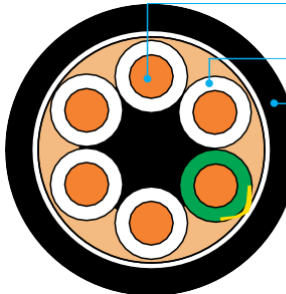
Mechanical Properties

Tensile Stress	Max. 15N/mm ²
Bending Radius	Min. 5 x D (D: Cable Diameter)
Torsion Stress	Not Permitted
Traveling Speed	Max. 100m/min.
Additional Tests	Bending

Chemical Properties

Oil Resistance	IEC 60811-2-1
Flame-Retardant	IEC 60332-1
Weather Resistance	Ozone, UV

Construction

Sectional View	Classification	Construction Detail
	Conductor	- Flexible tinned copper - IEC 60228 Class 5
	Insulation	- EPR, Better than IEC 60502-1
	Sheath	- SE1, Better than IEC 60502-1, Black
	Cores Identification	- If without earth conductor, White with black numbering - If with earth conductor, White with black numbering + green (or green / yellow)
	Marking	- If without earth conductor, TRDFC-S0.6/1kV Number of cores x cross-section TMC Year Length - If with earth conductor, TRDFC-S0.6/1kV Number of cores G cross-section TMC Year Length

TRDFC-S Round Festoon Cable – Single sheath, 0.6/1kV

Number of Core and Nominal Cross-Section	Conductor		Overall Diameter		Net Weight	Tension Stress
	Diameter (Approx)	Resistance (At 20°C)	Min.	Max.	Approx.	Max.
mm ²	mm	Ω/km	mm	mm	kg/km	N
1 x 10	4.0	1.950	9.3	10.9	190	150
1 x 16	5.6	1.240	11.2	13.0	270	240
1 x 25	7.0	0.795	13.2	15.0	390	375
1 x 35	8.2	0.565	14.5	16.5	500	525
1 x 50	9.9	0.393	16.8	18.8	690	750
1 x 70	11.8	0.277	19.0	21.2	930	1,050
1 x 95	13.5	0.210	21.2	23.6	1,190	1,425
1 x 120	15.3	0.164	23.2	25.6	1,470	1,800
1 x 150	17.1	0.132	25.7	28.3	1,820	2,250
1 x 185	18.6	0.108	27.7	30.5	2,180	2,775
1 x 240	21.3	0.082	31.1	34.1	2,820	3,600
1 x 300	24.1	0.065	34.6	37.8	3,540	4,500
2 x 1.5	1.6	13.700	9.9	11.5	140	45
2 x 2.5	2.0	8.210	11.3	13.1	190	75
2 x 4	2.6	5.090	13.4	15.2	260	120
2 x 6	3.1	3.390	14.7	16.7	330	180
2 x 10	4.0	1.950	17.6	19.8	480	300
2 x 16	5.6	1.240	21.5	23.9	720	480
2 x 25	7.0	0.795	25.6	28.2	1,030	750
3 x 1.5	1.6	13.700	10.6	12.2	170	67
3 x 2.5	2.0	8.210	11.9	13.7	230	112
3 x 4	2.6	5.090	14.2	16.2	330	180
3 x 6	3.1	3.390	15.7	17.7	420	270
3 x 10	4.0	1.950	18.8	21.0	620	450
3 x 16	5.6	1.240	23.0	25.4	920	720
3 x 25	7.0	0.795	27.3	30.1	1,330	1,125
3 x 35	8.2	0.565	30.1	32.9	1,700	1,575
3 x 50	9.9	0.393	35.0	38.2	2,370	2,250
4 x 1.5	1.6	13.700	11.3	13.1	220	90
4 x 2.5	2.0	8.210	13.1	14.9	280	150
4 x 4	2.6	5.090	15.7	17.7	410	240
4 x 6	3.1	3.390	17.3	19.3	520	360
4 x 10	4.0	1.950	20.6	23.0	770	600
4 x 16	5.6	1.240	25.5	28.1	1,170	960
4 x 25	7.0	0.795	30.3	33.3	1,700	1,500
4 x 35	8.2	0.565	33.4	36.4	2,180	2,100
4 x 50	9.9	0.393	39.0	42.4	3,060	3,000
5 x 1.5	1.6	13.700	12.5	14.3	260	112
5 x 2.5	2.0	8.210	14.3	16.3	350	187
5 x 4	2.6	5.090	17.2	19.2	490	300
5 x 6	3.1	3.390	18.9	21.1	630	450
5 x 10	4.0	1.950	22.7	25.1	950	750
5 x 16	5.6	1.240	28.1	30.9	1,440	1,200
5 x 25	7.0	0.795	33.4	36.4	2,090	1,875
5 x 35	8.2	0.565	37.1	40.5	2,720	2,625
5 x 50	9.9	0.393	43.2	46.9	3,790	3,750
6 x 1.5	1.6	13.700	13.4	15.2	300	135
6 x 2.5	2.0	8.210	15.6	17.6	420	225
6 x 4	2.6	5.090	18.8	21.0	590	360
6 x 6	3.1	3.390	20.7	23.1	760	540
6 x 10	4.0	1.950	24.8	27.4	1,130	900
12 x 1.5	1.6	13.700	20.0	22.2	620	270
12 x 2.5	2.0	8.210	23.4	25.8	880	450
12 x 4	2.6	5.090	28.4	31.2	1,320	720
18 x 1.5	1.6	13.700	20.5	22.9	690	405
18 x 2.5	2.0	8.210	24.0	26.6	990	675
18 x 4	2.6	5.090	29.3	32.1	1,480	1,080
24 x 1.5	1.6	13.700	24.0	26.6	930	540
24 x 2.5	2.0	8.210	28.2	31.0	1,330	900
30 x 1.5	1.6	13.700	25.9	28.5	1,070	675
30 x 2.5	2.0	8.210	30.5	33.5	1,550	1,125
36 x 1.5	1.6	13.700	27.9	30.7	1,250	810
36 x 2.5	2.0	8.210	33.1	36.1	1,840	1,350

Note: Additional sizes applicable upon request.

ROUND FESTOON CABLE – SINGLE SHEATH, COLLECTIVE SCREEN, 0.6/1kV



Cable Type:	TRDFC-SC
Standards:	IEC 60502-1, VDE 0250-814
Specification:	TMCRS-14031
Application:	Flexible power and control cable for use on festoon systems RMGC, RTGC, GC, OHC etc.

Electrical Properties

Rated Voltage(U ₀ /U)	0.6/1kV
AC Test Voltage	3.5kV/5min.
Current Rating(A)	IEC 60364-5-52

Thermal Properties

Maximum Conductor Temperature	
•Normal Operation	90°C
•Short-Circuit(5s)	250°C Ambient Temperature
•Moved	-25°C to +60°C
•Not Moved	-40°C to +80°C

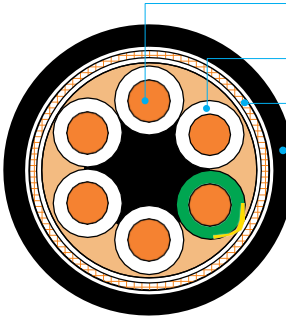
Mechanical Properties

Tensile Stress	Max. 15N/mm ²
Bending Radius	
•20mm ≥ D	Min. 6 x D
•20mm < D	Min. 8 x D (D: Cablediameter)
Torsion Stress	Not Permitted
Traveling Speed	Max. 100m/min.
Additional Tests	Bending

Chemical Properties

Oil Resistance	IEC 60811-2-1
Flame-Retardant	IEC 60332-1
Weather Resistance	Ozone, UV

Construction

Sectional View	Classification	Construction Detail	
	Conductor	- Flexible tinned copper - IEC 60228 Class 5	
	Insulation	- EPR, Better than IEC 60502-1	
	Collective Screen	- Braid screen made of tinned copper wires and polyester yarn	
	Sheath	- SE1, Better than IEC 60502-1, Black	
	Cores Identification	- If without earth conductor, White with black numbering - If with earth conductor, White with black numbering + green (or green / yellow)	
	Marking		- If without earth conductor, TRDFC-SC 0.6/1kV Number of cores x cross-section TMC Year Length - If with earth conductor, TRDFC-SC 0.6/1kV Number of cores G cross-section TMC Year Length

TRDFC-SC Round Festoon Cable – Single sheath, Collective screen, 0.6/1kV

Number of Core and Nominal Cross-Section	Conductor		Overall Diameter		Net Weight	Tension Stress
	Diameter (Approx)	Resistance (At 20°C)	Min.	Max.	Approx.	Max.
mm ²	mm	Ω/km	mm	mm	kg/km	N
1 x 10	4.0	1.950	11.7	13.5	230	150
1 x 16	5.6	1.240	13.8	15.8	330	240
1 x 25	7.0	0.795	15.8	17.9	450	375
1 x 35	8.2	0.565	17.1	19.3	570	525
1 x 50	9.9	0.393	19.4	21.7	770	750
1 x 70	11.8	0.277	21.4	23.8	1,010	1,050
1 x 95	13.5	0.210	23.9	26.5	1,290	1,425
1 x 120	15.3	0.164	25.8	28.6	1,580	1,800
1 x 150	17.1	0.132	28.2	31.0	1,930	2,250
1 x 185	18.6	0.108	30.4	33.4	2,310	2,775
1 x 240	21.3	0.082	33.8	37.0	2,970	3,600
1 x 300	24.1	0.065	37.3	40.7	3,700	4,500
2 x 1.5	1.6	13.700	12.3	14.2	180	45
2 x 2.5	2.0	8.210	13.7	15.7	230	75
2 x 4	2.6	5.090	15.8	17.9	310	120
2 x 6	3.1	3.390	17.1	19.3	380	180
2 x 10	4.0	1.950	19.8	22.2	530	300
2 x 16	5.6	1.240	24.0	26.6	790	480
2 x 25	7.0	0.795	25.6	28.3	960	750
3 x 1.5	1.6	13.700	12.5	15.0	230	67
3 x 2.5	2.0	8.210	14.1	16.6	300	112
3 x 4	2.6	5.090	16.2	18.9	400	180
3 x 6	3.1	3.390	17.7	20.4	500	270
3 x 10	4.0	1.950	20.8	23.7	720	450
3 x 16	5.6	1.240	25.2	28.5	1,060	720
3 x 25	7.0	0.795	29.4	32.9	1,480	1,125
3 x 35	8.2	0.565	32.3	36.0	1,880	1,575
3 x 50	9.9	0.393	37.3	41.2	2,570	2,250
4 x 1.5	1.6	13.700	13.9	16.4	250	90
4 x 2.5	2.0	8.210	15.6	18.3	330	150
4 x 4	2.6	5.090	18.2	20.9	450	240
4 x 6	3.1	3.390	19.8	22.7	570	360
4 x 10	4.0	1.950	23.5	26.6	850	600
4 x 16	5.6	1.240	28.4	31.9	1,270	960
4 x 25	7.0	0.795	33.0	36.7	1,800	1,500
4 x 35	8.2	0.565	36.2	40.1	2,300	2,100
4 x 50	9.9	0.393	42.3	46.6	3,230	3,000
5 x 1.5	1.6	13.700	14.9	17.4	290	112
5 x 2.5	2.0	8.210	16.9	19.6	390	187
5 x 4	2.6	5.090	19.7	22.6	550	300
5 x 6	3.1	3.390	21.5	24.4	690	450
5 x 10	4.0	1.950	25.5	28.8	1,030	750
5 x 16	5.6	1.240	31.1	34.6	1,540	1,200
5 x 25	7.0	0.795	36.3	40.2	2,210	1,875
5 x 35	8.2	0.565	40.5	44.6	2,880	2,625
5 x 50	9.9	0.393	46.7	51.2	4,000	3,750
6 x 1.5	1.6	13.700	15.9	18.6	340	135
6 x 2.5	2.0	8.210	18.0	20.7	450	225
6 x 4	2.6	5.090	21.3	24.2	640	360
6 x 6	3.1	3.390	23.5	26.6	830	540
6 x 10	4.0	1.950	27.7	31.0	1,220	900
12 x 1.5	1.6	13.700	22.5	25.6	680	270
12 x 2.5	2.0	8.210	26.0	29.3	940	450
12 x 4	2.6	5.090	31.4	34.9	1,380	720
18 x 1.5	1.6	13.700	23.0	26.1	720	405
18 x 2.5	2.0	8.210	26.7	30.0	1,030	675
18 x 4	2.6	5.090	32.1	35.8	1,510	1,080
24 x 1.5	1.6	13.700	26.8	30.1	980	540
24 x 2.5	2.0	8.210	30.9	34.4	1,380	900
30 x 1.5	1.6	13.700	28.5	32.0	1,120	675
30 x 2.5	2.0	8.210	32.8	36.5	1,580	1,125
36 x 1.5	1.6	13.700	30.6	34.1	1,310	810
36 x 2.5	2.0	8.210	35.3	39.2	1,880	1,350

Note: Additional sizes applicable upon request.

ROUND FESTOON CABLE – 0.6/1kV



Cable Type:	TRDFC
Standards:	IEC 60502-1, VDE 0250-814
Specification:	TMCRS-14012
Application:	Flexible power and control cable for use on festoon systems RMQC, RMGC, RTGC, GC, OHC etc.

Electrical Properties

Rated Voltage(U ₀ /U)	0.6/1kV
AC Test Voltage	3.5kV/5min.
Current Rating(A)	IEC 60364-5-52

Thermal Properties

Maximum Conductor Temperature	
•Normal Operation	90°C
•Short-Circuit(5s)	250°C
Ambient Temperature	
•Moved	-25°C to +60°C
•Not Moved	-40°C to +80°C

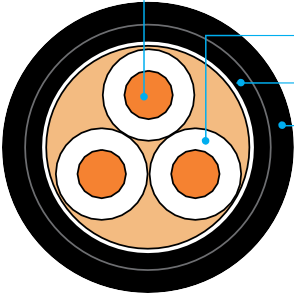
Mechanical Properties

Tensile Stress	Max. 15N/mm ²
Bending Radius	Min. 5 x D (D : Cable diameter)
Torsion Stress	Not Permitted
Traveling Speed	Max. 210m/min.
Additional Tests	Bending

Chemical Properties

Oil Resistance	IEC 60811-2-1
Flame-Retardant	IEC 60332-1
Weather Resistance	Ozone, UV

Construction

Sectional View	Classification	Construction Detail
	Conductor	- Flexible tinned copper - IEC 60228 Class 5
	Insulation	- EPR, Better than IEC 60502-1
	Inner Sheath	- SE1, Better than IEC 60502-1
	Outer Sheath	- SE1, Better than IEC 60502-1, Black
Cores Identification	- If without earth conductor, White with black numbering - If with earth conductor, White with black numbering+ green (or green / yellow)	
Marking	- If without earth conductor, TRDFC 0.6/1kV Number of cores x cross-section TMC Year Length - If with earth conductor, TRDFC 0.6/1kV Number of cores G cross-section TMC Year Length	

TRDFC-S Round Festoon Cable, 0.6/1kV

Number of Core and Nominal Cross-Section	Conductor		Overall Diameter		Net Weight	Tension Stress
	Diameter (Approx)	Resistance (At 20°C)	Min.	Max.	Approx.	Max.
mm ²	mm	Ω/km	mm	mm	kg/km	N
1 x 185	18.6	0.108	27.9	31.2	2,210	2,775
1 x 240	21.3	0.082	31.3	34.8	2,850	3,600
1 x 300	24.1	0.065	34.8	38.5	3,570	4,500
3 x 35	8.2	0.565	30.5	34.0	1,740	1,575
3 x 50	9.9	0.393	35.4	39.3	2,410	2,250
4 x 25	7.0	0.795	30.6	34.1	1,730	1,500
4 x 35	8.2	0.565	33.8	37.5	2,230	2,100
4 x 50	9.9	0.393	39.5	43.6	3,110	3,000
5 x 16	5.6	1.240	28.6	32.1	1,480	1,200
5 x 25	7.0	0.795	33.9	37.6	2,140	1,875
5 x 35	8.2	0.565	37.7	41.6	2,770	2,625
5 x 50	9.9	0.393	43.9	48.2	3,870	3,750
12 x 4	2.6	5.090	28.9	32.4	1,330	720
18 x 4	2.6	5.090	29.7	33.2	1,400	1,080
24 x 2.5	2.0	8.210	28.4	31.9	1,330	900
24 x 4	2.6	5.090	35.0	38.9	1,980	1,440
30 x 2.5	2.0	8.210	30.4	33.9	1,520	1,125
36 x 1.5	1.6	13.700	28.2	31.5	1,250	810
36 x 2.5	2.0	8.210	32.9	36.6	1,810	1,350

Note: Additional sizes applicable upon request.

ICC CABLE CORP.

ROUND FESTOON CABLE – COLLECTIVE SCREEN, 0.6/1kV



Cable Type:	TRDFC-C
Standards:	IEC 60502-1, VDE 0250-814
Specification:	TMCRS-14013
Application:	Flexible power and control cable for use on festoon systems RMQC, RMGC, RTGC, GC, OHC etc.

Electrical Properties

Rated Voltage(Uo/U)	0.6/1kV
AC Test Voltage	3.5kV/5min.
Current Rating(A)	IEC 60364-5-52

Thermal Properties

Maximum Conductor Temperature	
•Normal Operation	90°C
•Short-Circuit(5s)	250°C
Ambient Temperature	
•Moved	-25°C to +60°C
•Not Moved	-40°C to +80°C

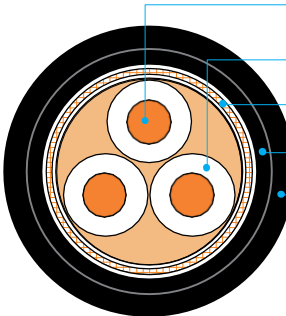
Mechanical Properties

Tensile Stress	Max. 15N/mm ²
Bending Radius	
•20mm ≥ D	Min. 6 x D
•20mm < D	Min. 8 x D (D: Cablediameter)
Torsion Stress	Not Permitted
Traveling Speed	Max. 210m/min.
Additional Tests	Bending

Chemical Properties

Oil Resistance	IEC 60811-2-1
Flame-Retardant	IEC 60332-1
Weather Resistance	Ozone, UV

Construction

Sectional View	Classification	Construction Detail
	Conductor	- Flexible tinned copper - IEC 60228 Class 5
	Insulation	- EPR, Better than IEC 60502-1
	Collective Screen	- Braid screen made of tinned copper wires and polyester yarn
	Inner Sheath	- SE1, Better than IEC 60502-1
	Outer Sheath	- SE1, Better than IEC 60502-1, Black
	Cores Identification	- If without earth conductor, White with black numbering - If with earth conductor, White with black numbering+ green (or green / yellow)
Marking	- If without earth conductor, TRDFC-C 0.6/1kV Number of cores x cross-section TMC Year Length - If with earth conductor, TRDFC-C 0.6/1kV Number of cores G cross-section TMC Year Length	

TRDFC-C Round Festoon Cable – Collective screen, 0.6/1kV

Number of Core and Nominal Cross-Section	Conductor		Overall Diameter		Net Weight	Tension Stress
	Diameter (Approx)	Resistance (At 20°C)	Min.	Max.	Approx.	Max.
mm ²	mm	Ω/km	mm	mm	kg/km	N
1 x 150	17.1	0.132	28.7	32.1	1,970	2,250
1 x 185	18.6	0.108	30.8	34.2	2,340	2,775
1 x 240	21.3	0.082	34.4	38.0	3,010	3,600
1 x 300	24.1	0.065	37.9	41.7	3,750	4,500
2 x 25	7.0	0.795	26.3	29.6	990	750
3 x 25	7.0	0.795	30.4	33.9	1,450	1,125
3 x 35	8.2	0.565	33.3	37.0	1,840	1,575
3 x 50	9.9	0.393	38.6	42.7	2,560	2,250
4 x 16	5.6	1.240	28.6	32.1	1,290	960
4 x 25	7.0	0.795	33.4	37.1	1,830	1,500
4 x 35	8.2	0.565	36.6	40.5	2,330	2,100
4 x 50	9.9	0.393	42.7	47.0	3,270	3,000
5 x 16	5.6	1.240	31.5	35.0	1,580	1,200
5 x 25	7.0	0.795	36.7	40.6	2,250	1,875
5 x 35	8.2	0.565	40.9	45.0	2,920	2,625
5 x 50	9.9	0.393	47.1	51.6	4,040	3,750
6 x 10	4.0	1.950	28.1	31.4	1,250	900
12 x 4	2.6	5.090	31.7	35.4	1,420	720
18 x 4	2.6	5.090	32.3	36.0	1,530	1,080
24 x 4	2.6	5.090	37.1	40.6	2,070	1,440
30 x 1.5	1.6	13.700	28.7	32.2	1,140	675
30 x 2.5	2.0	8.210	33.2	36.9	1,620	1,125
36 x 1.5	1.6	13.700	30.8	34.3	1,330	810
36 x 2.5	2.0	8.210	35.5	39.4	1,900	1,350

Note: Additional sizes applicable upon request.