



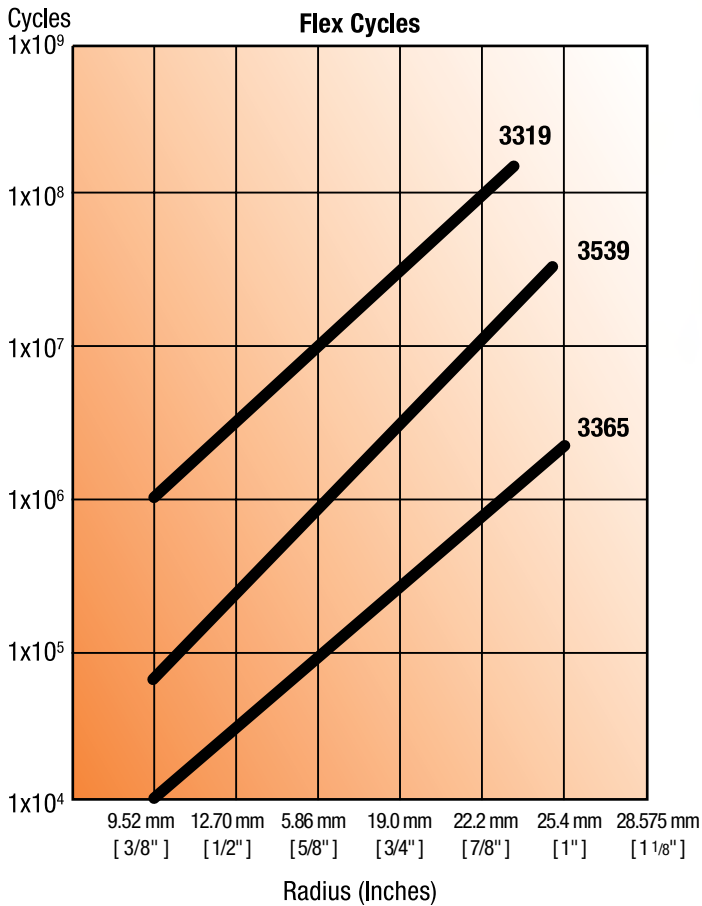
Cables and Accessories Selection Guide



a tti company



Cable Flex Cycles

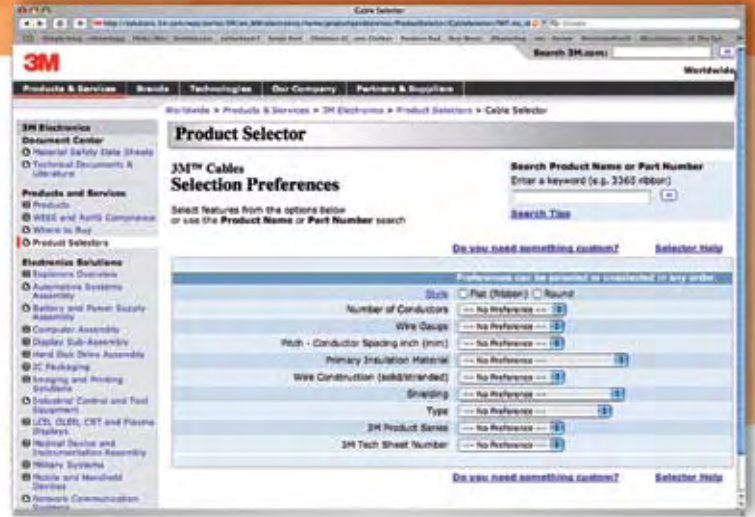


The "Rolling Flex Test" flexed the cable 180° around a radius closely resembling typical usage, as represented in the illustration at right.

For more details, download tech sheet TS-0732.

3M™ Cable Assemblies

Contact your 3M sales representative.



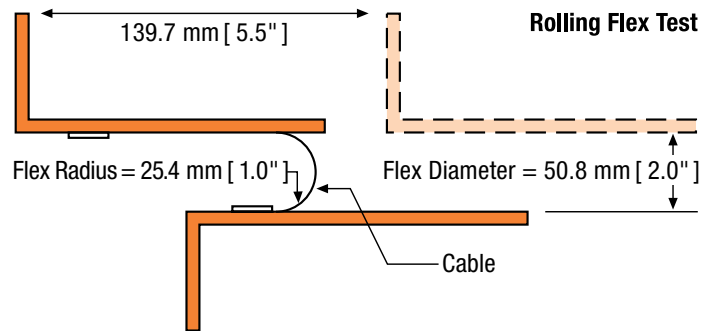
www.3M.com/interconnects/cableselector

Each of the three cables represented in this chart consists of 28 AWG stranded conductors on 1.27 mm [.050"] wire spacing.

3M™ Round Conductor Flat Cable 3365 represents conductors that consist of seven strands, in which each of the strands are 36 AWG tinned soft copper.

3M™ Round Conductor Flat Cable, Medium Flex Life 3539 represents conductors that consist of 19 strands, in which each of the strands are 40 AWG tinned soft copper.

3M™ Round Conductor Flat Cable, High Flex Life 3319 represents conductors that consist of 19 strands, in which each of the strands are 40 AWG silver plated high-strength copper alloy.



AWG Conversion Table

AWG	Individual Strands		Overall Conductor Construction	
	Number	Outside Diameter mm / inch	Outside Diameter mm / inch	Cross Section mm ² / Circ. Mils
22	1	0.643 / 0.0253	0.64 / 0.0253	0.326 / 640
22	7	0.254 / 0.0100	0.78 / 0.0300	0.355 / 700
22	19	0.160 / 0.0063	0.81 / 0.0320	0.382 / 750
24	1	0.510 / 0.0201	0.51 / 0.0201	0.205 / 404
24	7	0.203 / 0.0080	0.61 / 0.0240	0.227 / 448
24	19	0.127 / 0.0050	0.64 / 0.0250	0.241 / 475
26	1	0.404 / 0.0159	0.40 / 0.0159	0.128 / 253
26	7	0.160 / 0.0063	0.48 / 0.0190	0.141 / 275
26	19	0.102 / 0.0040	0.51 / 0.0200	0.149 / 304
28	1	0.320 / 0.0126	0.32 / 0.0126	0.080 / 124
28	7	0.127 / 0.0050	0.38 / 0.0150	0.089 / 175
28	19	0.080 / 0.0031	0.40 / 0.0160	0.092 / 201
30	1	0.250 / 0.0100	0.25 / 0.0100	0.050 / 100
30	7	0.102 / 0.0040	0.30 / 0.0120	0.057 / 112

Accessories

3M™ Flat Ribbon Cable Cutter

The 3M Flat Ribbon Cable Cutter 3382 with toggle lever cuts cables up to 81.5 mm [3.2"] width without conductor deformation. The cutting anvil with wire guide assures a square cut.



3M™ Cable Clamp

The 3M Cable Clamp 3484 facilitates cable routing by clamping and retaining up to six layers of flat cable.

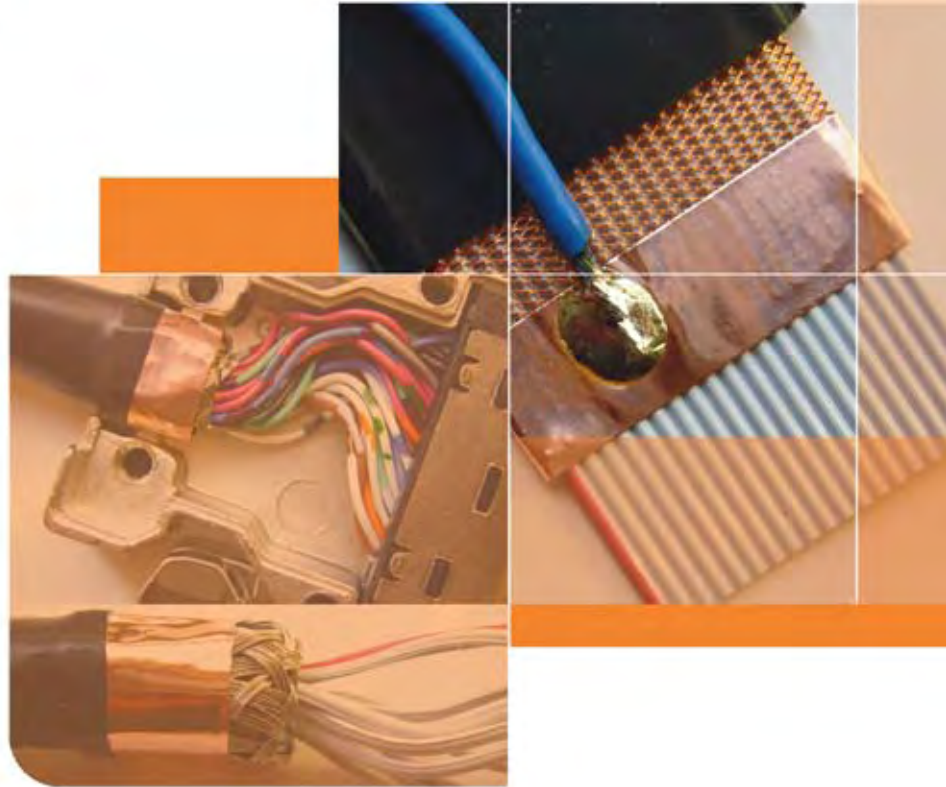
Available with or without adhesive backing.



For more details, download tech sheet TS-0260.

3M™ Shielding Tapes

3M offers a variety of different shielding tapes for grounding and shielding. Various copper, aluminum or fabric tapes with conductive adhesives are available.



3M™ High Flex Life Braided Shield

The construction of woven conductors consisting of tinned-copper foil spirally wound over glass fibers allows up to 50 million flex cycles at 3.81 cm [1.5"] radius.

Available from 5 mm up to 37 mm [0.2" up to 1.5"].



For more details, download tech sheet TS-0713.

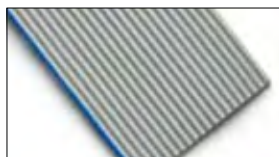
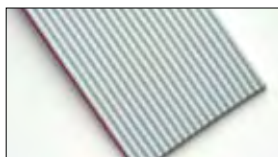
3M™ Heat Shrink Tubing

3M Heat Shrink Tubing offers an outstanding balance of electrical, physical and chemical properties for a wide variety of applications.

For more details, contact your 3M sales representative.



All 3M™ Flat and Round Cables permit termination to a broad line of IDC connectors



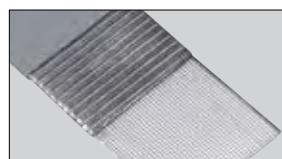
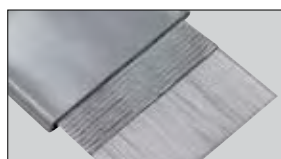
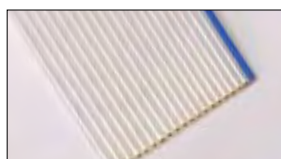
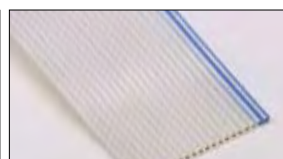
Cable Type/Description	Round Conductor Flat Cable	Round Conductor Flat Cable	Round Conductor Flat Cable, Halogen Free	Round Conductor Flat Cable
Pitch/Centerline mm (in.)	0.635 (.025)	0.635 (.025)	0.635 (.025)	0.635 (.025)
3M Cable Series	3754	3749	2049	3447
Features	<ul style="list-style-type: none"> - The "basic stranded cable" for 1.27 mm [0.050"] IDC connectors - Zippable 	<ul style="list-style-type: none"> - The "basic solid cable" for 1.27 mm [0.050"] IDC connectors - Meets SCSI-3 Fast-20 impedance requirements - Zippable 	<ul style="list-style-type: none"> - Halogen free - Low toxicity - Low smoke - Zippable 	<ul style="list-style-type: none"> - 6.35 mm [.025"] wire spacing designed for mass termination - Zippable
Conductor Size	30 AWG	30 AWG	30 AWG	30 AWG
Conductor Material	Tinned Copper	Tinned Copper	Tinned Copper	Tinned Copper
Conductor Stranding	7 x 0.102 (7x38)	Solid	Solid	Solid
Conductor Quantity	20 to 100	20 to 100	20 to 100	20 to 100
Primary Insulation	PVC	TPE	PO	PVC
Primary Color	Gray	Gray	Off-White	Gray
Jacket Insulation				
Jacket Color				
Shield				
Voltage Rating USA / EU [V]	30 / <50	150 / <50	30 / <50	30 / <50
Temperature Min. [°C]	-20	-40	-20	-20
Temperature Max. [°C]	+105	+105	+105	+105
UL Recognition / Listing	✓ / -	✓ / -	✓ / -	✓ / -
Flammability UL / CUL	VW-1 / FT1	VW-1 / FT1	Horizontal	VW-1
RoHS Compliant	✓	Contact 3M, contains decaBDE	✓	✓
Download by Tech Sheet Number: www.3M.com [use the search window]	TS-0875	TS-0068	TS-0886	TS-0830

All 3M™ Flat and Round Cables permit termination to a broad line of IDC connectors



Cable Type/Description	Twisted Pair Flat Cable	Twisted Pair Flat Cable	Twisted Pair Flat Cable, Halogen Free	Ground Plane Flat Cable
Pitch / Centerline mm (in.)	1.27 (.050)	1.27 (.050)	1.27 (.050)	1.27 (.050)
3M Cable Series	1700	3782	2100	3469
Features	<ul style="list-style-type: none"> - Color-coded for wire identification - Reduced crosstalk - Different lengths of twisted/flat repeat sections available 	<ul style="list-style-type: none"> - Loose twisted pair construction for easier routing - Reduced crosstalk - Bonded flat sections for easy IDC connector termination - Zippable 	<ul style="list-style-type: none"> - Halogen free - Low toxicity - Low smoke - Reduced crosstalk - Different lengths of twisted/flat repeat sections available 	<ul style="list-style-type: none"> - Lower crosstalk than round conductor flat cable - No drain wire
Conductor Size	28 AWG	28 AWG	28 AWG	28 AWG
Conductor Material	Tinned Copper	Tinned Copper	Tinned Copper	Tinned Copper
Conductor Stranding	7 x 0.127 (7x36)	7 x 0.127 (7x36)	7 x 0.127 (7x36)	7 x 0.127 (7x36)
Conductor Quantity	10 to 64 (5 to 32 Pairs)	10 to 68 (5 to 34 Pairs)	10 to 64 (5 to 32 Pairs)	10 to 64
Primary Insulation	PVC	PVC	PO	PVC
Primary Color	10 Color Repeat	10 Color Repeat + White	Blue + Off-White Pairs Repeat	Gray
Jacket Insulation				
Jacket Color				
Shield				Expanded Copper (one side only)
Voltage Rating USA / EU [V]	300 / <50	300 / <50	150 / <50	300 / <50
Temperature Min. [°C]	-20	-20	-20	-20
Temperature Max. [°C]	+105	+80	+80	+105
UL Recognition / Listing	✓ / -	- / -	✓ / -	✓ / -
Flammability UL / CUL	VW-1 / FT1	VW-1	VW-1	VW-1 / FT1
RoHS Compliant	✓	✓	✓	Planned Q4 2008
Download by Tech Sheet Number: www.3M.com [use the search window]	TS-0115	TS-0999	TS-0762	TS-0077

Customized Cable? Ask your local 3M contact.



Round Conductor Flat Cable
0.635 (.025)
3604
- Excellent abrasion and chemical resistance - Excellent mechanical durability - For extreme temperature req.
30 AWG
Silver Plated Copper
Solid
20 to 100
FEP
Opaque White
150 / <50
-55
+150
✓ / -
VW-1
✓
TS-0653

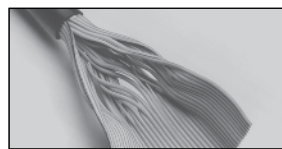
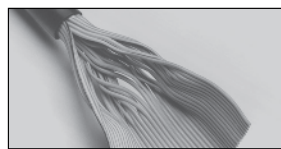
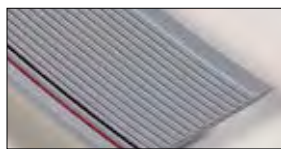
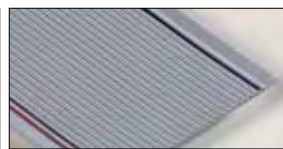
Round Conductor Flat Cable
0.635 (.025)
3609
- Excellent abrasion and chemical resistance - Excellent mechanical durability - For extreme temperature req.
30 AWG
Silver Plated Copper
7 x 0.102 (7x38)
20 to 100
FEP
Opaque White
150 / <50
-55
+150
✓ / -
VW-1
✓
TS-0654

Round Conductor Flat Cable
0.635 (.025)
3756
- Meets SCSI-3 impedance requirements
30 AWG
Tinned Copper
7 x 0.102 (7x38)
20 to 100
TPE
Gray
150 / <50
-40
+105
✓ / -
VW-1 / FT1
Contact 3M, contains decaBDE
TS-0508

Pleated Foil Shielded Flat Cable
0.635 (.025)
90101
- Thick jacket for external applications - Suitable for 50 Ohm unbalanced and 100 Ohm balanced impedance applications - 35 dB average shielding effectiveness - Very low crosstalk - CL2 listed for external use
30 AWG
Tinned Copper
Solid
20 to 100
TPE
Translucent
PVC
Gray
Pleated Copper Foil
N.E.C. 725, CL2 / <50
+75
- / ✓
N.E.C. 725, CL2 / FT1
TS-0285

Pleated Foil Shielded Flat Cable
0.635 (.025)
90111
- Thick jacket for external applications - Suitable for 75 Ohm unbalanced impedance applications - 35 dB average shielding effectiveness - Very low crosstalk - CL2 listed for external use
30 AWG
Tinned Copper
Solid
20 to 100
TPE
Translucent
PVC
Gray
Pleated Copper Foil
N.E.C. 725, CL2 / <50
+75
- / ✓
N.E.C. 725, CL2 / FT1
TS-0451

Pleated Foil Shielded Flat Cable
0.635 (.025)
90201
- Thin cover for internal applications - Suitable for 50 Ohm unbalanced and 100 Ohm balanced impedance applications - 35 dB average shielding effectiveness - Very low crosstalk
30 AWG
Tinned Copper
Solid
20 to 100
TPE
Translucent
TPE
Gray
Pleated Copper Foil
150 / <50
-20
+105
✓ / -
VW-1 / FT1
TS-0402



Ground Plane Flat Cable
1.27 (.050)
3353
- Lower crosstalk than round conductor flat cable - Both edge conductors contact to the ground plane - Two drain wires
28 AWG
Tinned Copper
7 x 0.127 (7x36)
26 to 64
PVC
Gray
Expanded Copper (one side only)
300 / <50
-20
+105
✓ / -
VW-1 / FT1
Planned Q4 2008
TS-0078

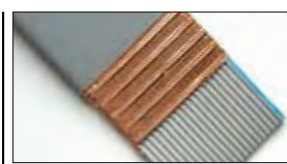
Ground Plane Flat Cable
1.27 (.050)
3476
- Lower crosstalk than round conductor flat cable - Conductor No. 1 contacts to the ground plane - One drain wire
28 AWG
Tinned Copper
7 x 0.127 (7x36)
10 to 64
PVC
Gray
Expanded Copper (one side only)
300 / <50
-20
+105
✓ / -
VW-1 / FT1
Planned Q4 2008
TS-0071

Shielded Jacketed Flat Cable
1.27 (.050)
3517
- 20 dB average shielding effectiveness - CL2 listed for external use - AWM listed for internal use - Primary cable is zippable
28 AWG
Tinned Copper
7 x 0.127 (7x36)
9 to 64
PVC
Gray
PVC
Black
Expanded Copper
300 / <50
-20
+80 (AWM) 75 (CL2)
✓ / ✓
N.E.C. 725, CL2 / FT1
✓
TS-0069

Shielded Jacketed Twisted Pair Flat Cable
1.27 (.050)
1785
- Reduced crosstalk - Different lengths of split bonded repeat sections available - 20 dB average shielding effectiveness - CL2 listed for external use - AWM listed for internal use
28 AWG
Tinned Copper
7 x 0.127 (7x36)
20 to 64 (10 to 32 Pairs)
PVC
10 Color Repeat + Tan (ground)
PVC
Black
Expanded Copper
150 / <50
-20
+80 (AWM) 75 (CL2)
✓ / ✓
N.E.C. 725, CL2 / FT1
✓
TS-0308

Round Jacketed Flat Cable
0.635 (.025)
3896
- Flat sections permit mass termination on 61 mm [2.4"] centers - Construction allows easy routing - Primary cable is zippable
30 AWG
Tinned Copper
7 x 0.102 (7x38)
20 to 100
PVC
Gray
PVC
Black
Expanded Copper
30 / <50
-20
+105
✓ / -
VW-1 / FT1
✓
TS-2173

Round Jacketed Flat Cable
1.27 (.050)
3758
- 1.27 mm [0.50"] centers permit mass termination to broad line of IDC connectors - For external applications - Construction allows easy routing - CL2 listed for external use - For higher current applications - Primary cable is zippable
26 AWG
Tinned Copper
7 x 0.160 (7x34)
9 to 64
PVC
Gray
PVC
Black
Expanded Copper
300 / <50
-20
+75 (CL2)
✓ / ✓
N.E.C. 725, CL2 / FT1
✓
TS-2200



Pleated Foil Shielded Flat Cable

0.635 (.025)

90202

- Thin cover for internal applications
- 35 dB average shielding effectiveness
- Very low crosstalk
- Stranded

30 AWG

Tinned Copper

7 x 0.102 (7x38)

20 to 100

TPE

Gray

TPE

Gray

Pleated Copper Foil

150 / <50

-20

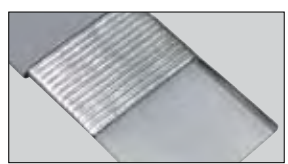
+105

✓ / -

VW-1 / FT1

Contact 3M, contains decaBDE

TS-0730



Pleated Foil Shielded Flat Cable

0.635 (.025)

90211

- Thin cover for internal applications
- Suitable for 75 Ohm unbalanced impedance applications
- 35 dB average shielding effectiveness
- Very low crosstalk

30 AWG

Tinned Copper

Solid

20 to 100

TPE

Translucent

PVC

Gray

Pleated Copper Foil

150 / <50

-20

+105

✓ / -

VW-1 / FT1

✓

TS-0598



Pleated Foil Shielded Flat Cable, Low Skew

0.635 (.025)

93101

- Thick jacket for external applications
- Suitable for 50 Ohm unbalanced and 100 Ohm balanced Zo applications
- 35 dB average shielding effectiveness
- Very low crosstalk
- CL2 listed for external use
- Low skew

30 AWG

Tinned Copper

Solid

50 to 100

TPE

Translucent

PVC

Gray

Pleated Copper Foil

N.E.C. 725 CL2 / <50

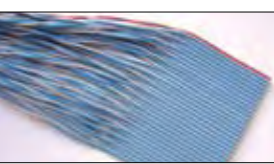
+75

✓ / -

N.E.C. 725, CL2 / FT1

✓

TS-0876



Halogen Free Twisted Pair Flat Cable

0.635 (.025)

79992

- Halogen free
- Low toxicity
- Low smoke
- Split conductor sections allow for easier routing
- Bonded sections for connector termination
- Zippable

30 AWG

Tinned Copper

7 x 0.102 (7x38)

20 to 68 (10 to 34 pairs)

PO

White/Blue Repeat

300 / <50

-10

+80

- / -

IEC 332-1

✓

TS-2253



Round Conductor Flat Cable

0.838 (.033)

3849

- 3 row DIN connector compatible
- Zippable

30 AWG

Tinned Copper

7 x 0.102 (7x38)

96

PVC

Gray

300 / <50

-20

+105

✓ / -

VW-1 / FT1

✓

TS-0573



Round Jacketed Flat Cable

1.27 (.050)

3759

- Flat sections permit mass termination on 61 mm [2.4"] centers
- Construction allows easy routing
- CL2 listed for external use
- AWM listed for internal use
- Primary cable is zippable

28 AWG

Tinned Copper

7 x 0.127 (7x36)

9 to 64

PVC

Gray

PVC

Black

300 / <50

-20

+80 (AWM) 75 (CL2)

✓ / ✓

N.E.C. 725, CL2 / FT1

✓

TS-0070



Round Jacketed Flat Cable, High Flex Life

1.27 (.050)

3834

- For external applications
- Flat sections permit mass termination on 61 mm [2.4"] centers
- Construction allows easy routing
- CL2 listed for external use
- Primary cable is zippable

28 AWG

Silver Plated Stranded Copper

19 x 0.079 (19x40)

10 to 64

PVC

Black

PVC

Black

N.E.C. 725, CL2 / <50

+75

- / ✓

N.E.C. 725, CL2 / FT1

✓

TS-1006



Round Jacketed Twisted Pair Flat Cable

1.27 (.050)

3783

- For external applications
- Reduced crosstalk
- Flat sections permit mass termination
- Loose twisted pair construction for easier routing
- Primary cable is zippable

28 AWG

Tinned Copper

7 x 0.127 (7x36)

10 to 68 (5 to 34 Pairs)

PVC

10 Color Repeat + White

PVC

Gray

300 / <50

+80

- / -

VW-1

✓

TS-2249



Round Shielded Jacketed Flat Cable

1.27 (.050)

3659

- Flat sections permit mass termination on 61 mm [2.4"] centers
- Construction allows easy routing
- CL2 listed for external use
- AWM listed for internal use
- 35 dB average shielding effectiveness
- Primary cable is zippable

28 AWG

Tinned Copper

7 x 0.102 (7x36)

9 to 64

PVC

Gray

PVC

Black

Aluminum Foil + Copper Braid

300 / <50

-20

+80 (AWM) 75 (CL2)

✓ / ✓

N.E.C. 725, CL2 / FT1

✓

TS-0083



Round Jacketed Shielded Twisted Pair Flat Cable

1.27 (.050)

3784

- For external applications
- Reduced crosstalk
- Flat sections permit mass termination
- Loose twisted pair construction for easier routing
- Shielding provides excellent EMI / ESD protection
- Primary cable is zippable

28 AWG

Tinned Copper

7 x 0.127 (7x36)

10 to 68 (5 to 34 Pairs)

PVC

10 Color Repeat + White

PVC

Gray

Tinned Copper Braid

300 / <50

+80

- / -

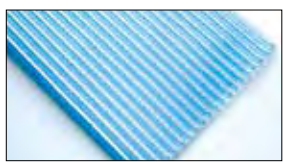
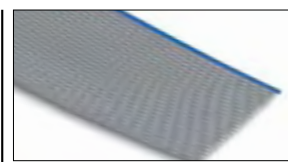
VW-1

✓

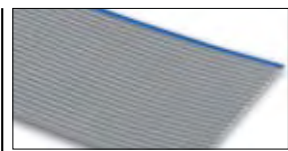
TS-2250

Round Conductor Flat Cable	Round Conductor Flat Cable	Round Conductor Flat Cable	Round Conductor Flat Cable, Halogen Free	Round Conductor Flat Cable	Round Conductor Flat Cable
1.0 (.039)	1.27 (.050)	1.27 (.050)	1.27 (.050)	1.27 (.050)	1.27 (.050)
3625	3365	3709	2010	3302	3667
- Suitable for 2 mm [.079"] - IDC connectors - Zippable	- The "basic stranded cable" for 2.54 mm [.100"] - IDC connectors - Zippable	- Zippable	- Halogen free - Low toxicity - Low smoke - Zippable	- Color-coded for wire identification - Zippable	- Split conductor sections allow for easier routing - Split/bond repeat of 61 cm [2.4"] - Custom constructions available - Zippable
28 AWG	28 AWG	32 AWG	28 AWG	28 AWG	28 AWG
Tinned Copper	Tinned Copper	Tinned Copper	Tinned Copper	Tinned Copper	Tinned Copper
7 x 0.127 (7x36)	7 x 0.127 (7x36)	Solid	7 x 0.127 (7x36)	7 x 0.127 (7x36)	7 x 0.127 (7x36)
6 to 50	6 to 64	9 to 64	9 to 64	9 to 64	10 to 64
PVC	PVC	PVC	PO	PVC	PVC
Gray	Gray (Optional Black)	Gray	Off-White	10 Color Repeat	Gray
300 / <50	300 / <50	300 / <50	30 / <50	300 / <50	300 / <50
-20	-20	-20	-20	-20	-20
+105	+105	+105	+105	+105	+105
✓ / -	✓ / -	✓ / -	✓ / -	✓ / -	✓ / -
VW-1 / FT1	VW-1 / FT1	VW-1 / FT1	Horizontal	VW-1 / FT1	VW-1 / FT1
✓	✓	✓	✓	✓	✓
TS-0452	TS-0080	TS-0419	TS-0722	TS-0123	TS-0247

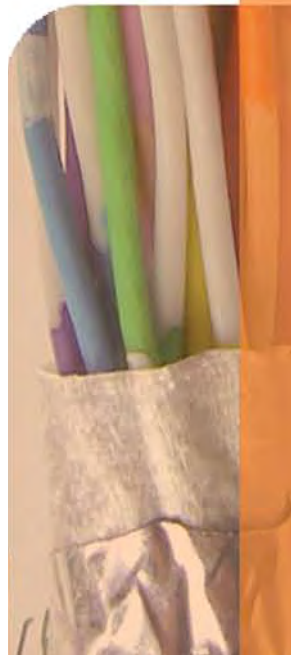
Pleated Foil Shielded Flat Cable	Pleated Foil Shielded Flat Cable	Round Conductor Flat Cable	Round Conductor Flat Cable
1.27 (.050)	1.27 (.050)	1.27 (.050)	1.27 (.050)
90104	90204	3801	3306
- Thick jacket for external applications - Suitable for 50 Ohm unbalanced and 100 Ohm balanced impedance applications - 35 dB average shielding effectiveness - Very low crosstalk - CL2 listed for external use - Mates with common IDC connectors	- Thin cover for internal applications - Suitable for 50 Ohm unbalanced and 100 Ohm balanced impedance applications - 35 dB average shielding effectiveness - Very low crosstalk - Mates with common IDC connectors	- For higher current applications - Zippable	- For higher current applications - The "basic solid cable" for 2.54 mm [0.100"] IDC connectors - Zippable
28 AWG	28 AWG	26 AWG	26 AWG
Tinned Copper	Tinned Copper	Tinned Copper	Bare Copper
7 x 0.127 (7x36)	7 x 0.127 (7x36)	7 x 0.160 (7x34)	Solid
15 to 64	15 to 64	9 to 64	10 to 60
TPE	TPE	PVC	PVC
Translucent	Translucent	Gray (Optional Black)	Gray
PVC	TPE		
Gray	Gray		
Pleated Copper Foil	Pleated Copper Foil		
Article 725 CL2 / <50	300 / <50	300 / <50	300 / <50
-20	-20	-20	-20
+75	+105	+105	+105
- / ✓	✓ / -	✓ / -	✓ / -
N.E.C. 725, CL2 / FT1	VW-1 / FT1	VW-1 / FT1	VW-1 / FT1
✓	✓	✓	✓
TS-0288	TS-0403	TS-0063	TS-0066











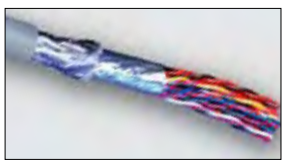

Round Conductor Flat Cable	Round Conductor Flat Cable	Jacketed Flat Cable	Round Conductor Flat Cable, Medium Flex Life
1.27 (.050)	1.27 (.050)	1.27 (.050)	1.27 (.050)
3355	3601	3603	3539
- Extended temperature range - Zippable	- Excellent abrasion and chemical resistance - Excellent mechanical durability - For extreme temperature req.	- CL2 listed for external use - AWM listed for internal use - Primary cable is zippable	- 10 million flex cycles at 22 mm [0.87"] bended radius - Zippable
28 AWG	28 AWG	28 AWG	28 AWG
Tinned Copper	Silver Plated Copper	Tinned Copper	Tinned Copper
7 x 0.127 (7x36)	7 x 0.127 (7x36)	7 x 0.127 (7x36)	19 x 0.079 (19x40)
9 to 64	10 to 60	10 to 64	9 to 64
TPE	FEP	PVC	PVC
Gray	Blue	Gray	Gray (Optional Black)
		PVC	
		Black	
300 / <50	300 / <50	300 / <50	300 / <50
-40	-55	-20	-20
+105	+200	+80 (AWM) 75 (CL2)	+105
✓ / -	✓ / -	✓ / ✓	✓ / -
Horizontal	VW-1	N.E.C. 725, CL2 / FT1	VW-1 / FT1
Contact 3M, contains decaBDE	✓	✓	✓
TS-0317	TS-0553	TS-0060	TS-0058

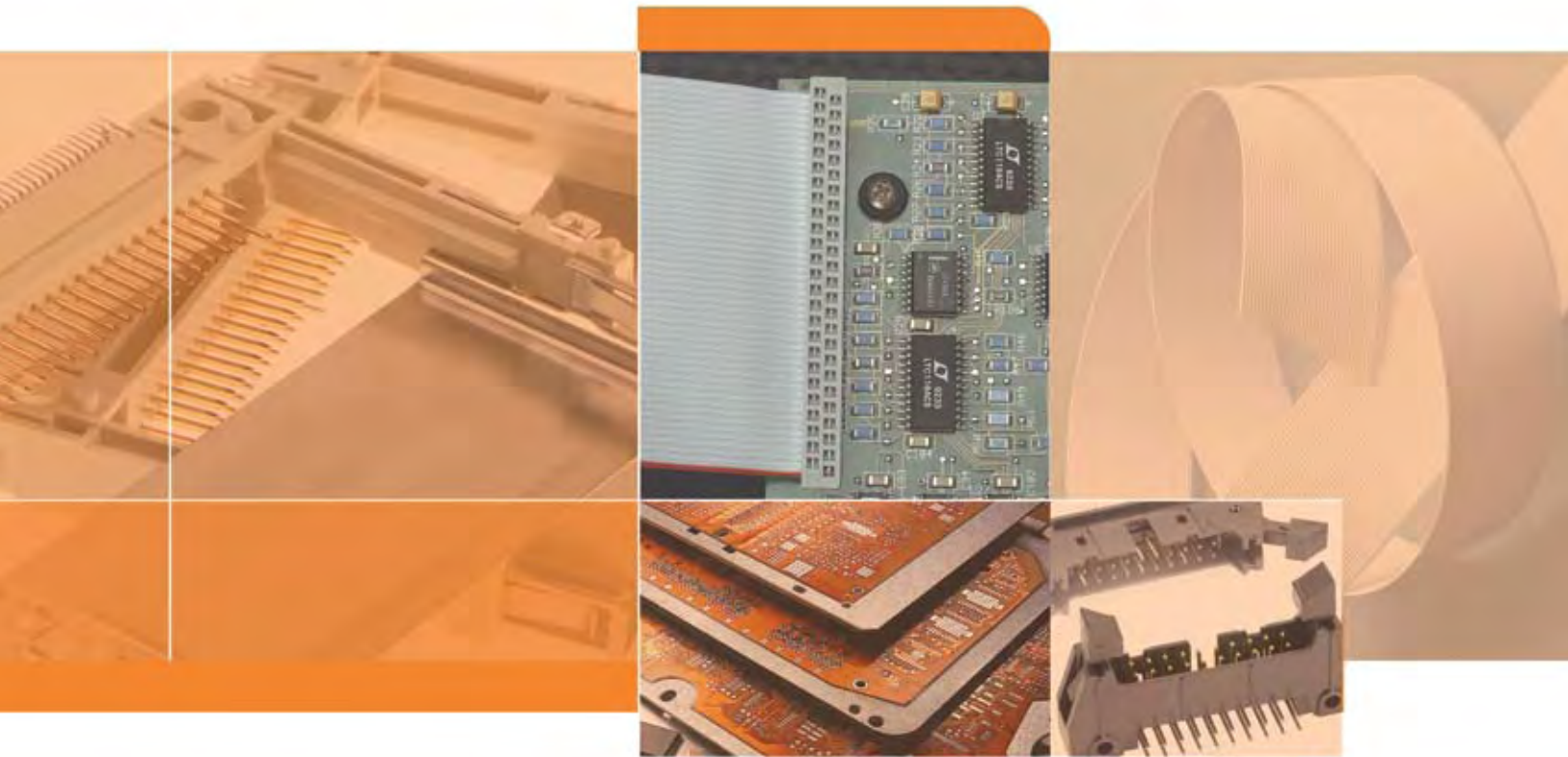


Round Conductor Flat Cable	Round Conductor Flat Cable	Round Conductor Flat Cable	Round Conductor Flat Cable
1.27 (.050)	1.27 (.050)	2.54 (.100)	2.54 (.100)
3770	3811	8124	8125
- For higher current applications - Extended temperature range - Zippable	- For higher current applications - Color coded for wire identification - Zippable	- For higher current applications - Compatible with CHG 2.54 mm [.100"] IDC sockets - Zippable	- For higher current applications - Compatible with CHG 2.54 mm [.100"] IDC sockets - Zippable
26 AWG	26 AWG	22 AWG	24 AWG
Tinned Copper	Tinned Copper	Tinned Copper	Tinned Copper
7 x 0.160 (7x34)	7 x 0.160 (7x34)	7 x 0.254 (7x30)	7 x 0.203 (7x32)
9 to 64	9 to 64	5 to 40	6 to 30
TPE	PVC	PVC	PVC
Gray	10 Color Repeat	Dark Gray	Dark Gray
300 / <50	300 / <50	300 / <50	300 / <50
-40	-20	-20	-20
+105	+105	+105	+105
✓ / -	✓ / -	✓ / -	✓ / -
Horizontal	VW-1 / FT1	VW-1 / FT1	VW-1 / FT1
Contact 3M, contains decaBDE	✓	✓	✓
TS-0342	TS-0122	TS-0084	TS-0259



				
Round Conductor Flat Cable, High Flex Life	Round Shielded Jacketed Discrete Wire Cable	Round Shielded Jacketed Discrete Wire Cable	Round Shielded Jacketed Discrete Wire Cable	Round Shielded Jacketed Discrete Wire Cable
1.27 (.050)				
3319	3600B	3644B	3647B	KU-C-KMPVV
- 100 million flex cycles at 22 mm [0.87"] bended radius - Zippable	- Twisted pairs - Dual shielding - 35 dB average shielding effectiveness - Reduced crosstalk - CL2 listed for external use - Wire OD tailored for use with MDR	- Twisted pairs - Dual shielding - 35 dB average shielding effectiveness - Reduced crosstalk - Suitable for 100 Ohm balanced impedance applications - CL2 listed for external use - Wire OD tailored for use with MDR	- Twisted pairs - Dual shielding - 35 dB average shielding effectiveness - Reduced crosstalk - Suitable for 100 Ohm balanced impedance applications - IEEE 1284 compliant - CL2 listed for external use - Wire OD tailored for use with MDR	- Twisted pairs - Reduced crosstalk - Very flexible
28 AWG	28 AWG	28 AWG	28 AWG	28 AWG
Silver Plated Copper Alloy	Tinned Copper	Tinned Copper	Tinned Copper	Tinned Copper
19 x 0.079 (19x40)	7 x 0.127 (7x36)	7 x 0.127 (7x36)	7 x 0.127 (7x36)	7 x 0.127 (7x36)
6 to 64	14 to 100 (7 to 50 Pairs)	14 to 100 (7 to 50 Pairs)	36 (18 Pairs)	14 to 100 (7 to 50 Pairs)
PVC	PVC	PO	PO	PVC
Black	Color Coded PVC Beige (Black Optional)	Color Coded PVC Beige (Black Optional)	Color Coded PVC Beige	Color Coded PVC Cream
	Aluminum Foil + Copper Braid	Aluminum Foil + Copper Braid	Aluminum Foil + Copper Braid	Tinned Copper Braid
300 / <50	N.E.C. 725, CL2 / <50	N.E.C. 725, CL2 / <50	N.E.C. 725, CL2 / <50	30 / <50
-20				-20
+105	+75	+75	+75	+60
✓ / -	- / ✓	- / ✓	- / ✓	- / -
VW-1 / FT1	N.E.C. 725, CL2 / FT1	N.E.C. 725, CL2 / FT1	N.E.C. 725, CL2 / FT1	VW-1
✓	✓	✓	✓	✓
TS-0059	TS-0388	TS-0826	TS-0582	TS-2272

				
Round Conductor Flat Cable Halogen Free	Round Conductor Flat Cable	Round Shielded Jacketed Discrete Wire Cable	Round Shielded Jacketed Discrete Wire Cable	PVC Shielded Jacket
3.96 (.156)	3.96 (.156)			
3391	8132	3750	3560	3617
- For higher current applications - Zippable	- For higher current applications - Zippable	- Twisted pairs - Dual shielding - 35 dB average shielding effectiveness - Reduced crosstalk - For higher current applications - Suitable for 50 Ohm unbalanced and 100 Ohm balanced impedance applications - CL2 listed for external use - AWM listed for internal use	- Twisted pairs - Dual shielding - 35 dB average shielding effectiveness - Reduced crosstalk - For higher current applications - CL2 listed for external use - AWM listed for internal use	- 3 sizes available - PVC insulation provides excellent protection for external wiring applications - Polyester leader for easy pull-through of cable, expanded copper shield for flexibility and easy termination - 20 dB average shielding effectiveness
22 AWG	18 AWG	26 AWG	26 AWG	
Tinned Copper	Tinned Copper	Tinned Copper	Tinned Copper	
7 x 0.254 (7x30)	19 x 0.254 (19x30)	7 x 0.160 (7x34)	Solid	
4 to 22	4 to 24	10 to 64 (5 to 32 Pairs)	10 to 64 (5 to 32 Pairs)	
PVC	PVC	PVC	PVC	PVC
10 Color Repeat	Dark Gray Wires	Color Coded PVC Gray	Color Coded PVC Gray	Black
		Aluminum Foil + Copper Braid	Aluminum Foil + Copper Braid	Expanded Copper
600 / <50	300 / <50	300 / <50	300 / <50	
-20	-20	-20	-20	-20
+80	+105	+80 (AWM) 75 (CL2)	+80 (AWM) 75 (CL2)	+80
✓ / -	✓ / -	✓ / ✓	✓ / ✓	Not applicable
VW-1 / FT1	VW-1 / FT1	N.E.C. 725, CL2 / FT1	N.E.C. 725, CL2 / FT1	VW-1 / FT1
✓	✓	✓	✓	✓
TS-0079	TS-0057	TS-0072	TS-0672	TS-0061



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