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QUICK REFERENCE GUIDE

High Performance

- Meet your application challenges . . . from harsh to harshest
- Compatible with full range of connectors and harnessing components

Space and Weight Savings

- Wide range of advanced cross-linked insulations and jackets
- Choice of tin-, nickel-, or silver-plated copper/ copper alloy conductors



Aerospace									
Product Family		Conductor Sizes (AWG)	Temperature Range (°C)	Insulation Material	Voltage (V)		Conductor Options		Colors
SPEC 44 (AS81044)	Military Aerospace	26 to 1/0	-65 to 150	Radiation-Cross-Linked PVDF	600/1000/2500	Tin-Plated Copper	Nickel-Plated Copper / Alloy	Silver-Plated Copper / Alloy	All
SPEC 55 (AS22759)	Commercial Aerospace In-Flight Entertainment	30 to 4/0	-65 to 200	Radiation-Cross-Linked ETFE	450/600/1000	Tin-Plated Copper	Nickel-Plated Copper / Alloy	Silver-Plated Copper / Alloy	All
SPEC 80	Space Applications Satellites	30 to 4/0	-65 to 200	Radiation-Cross-Linked Flexible ETFE	600/1000/2000*	Tin-Plated Copper	Nickel-Plated Copper / Alloy	Silver-Plated Copper / Alloy	All
SHF-260	Helicopters Engines	24 to 4/0	-65 to 260	Modified PFA	1000	-	Nickel-Plated Copper	-	Black and White
Marine									
Product Family		Conductor Sizes (AWG)	Temperature Range (°C)	Insulation Material	Voltage (V)		Conductor Options		Colors
ZHPCG / ZHI (Class 5 & Class 6)		1.5 mm² to 400 mm²	-45 to 125	Radiation-Cross-Linked Halogen-Free Polyolefin	600/1000/1900/3000	Tin-Plated Copper	_	_	Black
FRD25S	Military Naval Applications	8 to 4/0	-55 to 125	Flexible Diesel-Resistant Polyester Blend	1000	Tin-Plated Copper	-		Black
10603	 Military Electronics Shipboard Weapon Systems 	14 to 4/0 and 250 and 350 MCM	-55 to 125	Thermorad Dual Insulation	600	Tin-Plated Copper	_	-	Black
SPEC 44/44M	Shipboard Communication Systems	30 to 1/0	-65 to 150	Radiation-Cross-Linked PVDF	600/1000/2500	Tin-Plated Copper	Nickel-Plated Copper / Alloy	Silver-Plated Copper / Alloy	MIL-STD-681
SPEC 99M	Offshore Marine Applications Umbilicals / Tethers Drilling and Pumping Equipment	See Def Stan 61-12 Part 18 for construction available sizes	-40 to 120	Radiation-Cross-Linked Modified Polyester	600/1000	Tin-Plated Copper	-	-	MIL-STD-681
100G (VG-95218-Type 20 to Type 23)	Equipment	30 to 4/0	-55 to 125	Halogen-Free Polymer	750/1300	Tin-Plated Copper	_	-	MIL-STD-681
Ground									
Product Family		Conductor Sizes (AWG)	Temperature Range (°C)	Insulation Material	Voltage (V)		Conductor Options		Colors
ZHPCG / ZHI (Class 5 & Class 6)		1.5 mm² to 400 mm²	-45 to 125	Radiation-Cross-Linked Halogen-Free Polyolefin	600/1000/1900/3000	Tin-Plated Copper	_		Black
SPEC 44 (AS81044)	_	26 to 1/0	-65 to 150	Radiation-Cross-Linked PVDF	600/1000/2500	Tin-Plated Copper	Nickel-Plated Copper / Alloy	Silver-Plated Copper / Alloy	MIL-STD-681
SPEC 55 (AS22759)		30 to 4/0	-65 to 200	Radiation-Cross-Linked ETFE	450/600	Tin-Plated Copper	Nickel-Plated Copper / Alloy	Silver-Plated Copper / Alloy	MIL-STD-681
SPEC 80	Grounds SystemsMilitary Ground Vehicles	30 to 4/0	-65 to 200	Radiation-Cross-Linked Flexible ETFE	600	Tin-Plated Copper	Nickel-Plated Copper / Alloy	Silver-Plated Copper / Alloy	MIL-STD-681
SHF-260	Wheeled and Tracked	24 to 4/0	-65 to 260	Modified PFA	1000	_	Nickel-Plated Copper		White and Black
PWR0113	Vehicles Amphibious Vehicles Heavy and Light Trucks	8 to 4/0	-65 to 200 (3000+ hours)	Fluoroelastomer	600	_	Nickel-Plated Copper / Alloy	-	Black or Red Preferred
FRD25S	—	8 to 4/0	-55 to 125	Flexible Diesel-Resistant Polyester	1000	Tin-Plated Copper	_		Black
10603	_	14 to 4/0 and 250 and 350 MCM	-55 to 125	Thermorad Dual Insulation	600	Tin-Plated Copper			Black
100G (VG-95218-Type 20 to Type 23)		30 to 4/0	-55 to 125	Halogen-Free Polymer	750/1300	Tin-Plated Copper	_	_	MIL-STD-681

*2000 V is available as nonstandard part. Consult TE.

Material Abrasion Resistance and Flexibility			
Material	Product Group	Abrasion Resistance	Flexibility
FDR25	FDR25	Fair	Excellent
Thermorad Dual Insulation	10603	Good	Good
XL Halogen Free Polyolefin	ZHPCG	Good	Good
Modified PFA	SHF-260	Good	Good
Fluoroelastomer	PWR0113	Good	Good
Radiation-Cross-Linked PVDF	SPEC 44	Very Good	Fair-Good
XL ETFE	SPEC 55	Very Good	Fair-Good
XL Flexible ETFE	SPEC 80	Very Good	Good
XL ETFE	VG-95218-Type 20 to Type 23	Very Good	Fair
Radiation-Cross-Linked PVDF	VG-95218-Type 20 to Type 23	Very Good	Fair-Good

Specification	TE Wire and Cable Types		
SAE AS81044/5 to /13	81044/x		
SAE AS22759/32 to /35 and 22759/41 to /46	22759/x		
NEMA WC-27500	Specific SPEC 44x and 55A parts ONLY		
Defence Standard 61-12 Part 33/001 Issue 5	Specific SPEC 55D parts ONLY		
Defence Standard 61-12 Part 18 - Type 1	Specific SPEC 44M and SPEC 99 ONLY		
Defence Standard 61-12 Part 26 - All Types	Specific SPEC 44D ONLY		
VG 95218 Parts 20, 21, 22, 23, 1000	Specific SPEC VG ONLY		
NATO Stock Numbers (NSNs)	Exist for most standard constructions: check product offering		
Raychem Specification SPEC 55, 55A, 55PC	Covers all base SPEC 55 products		
Raychem Specification SPEC 44	Covers all base SPEC 44 products		
Boeing Spec BMS13-48	Specify SPEC 55PC parts ONLY		
Airbus ABS 0820 through to 0826	Specific SPEC 55K ONLY		
European Space Agency 3901/012, 3901/020 and 3901/022	Specific SPEC 55 and SPEC 99 ONLY		